



**LG**

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# **PLASMA TV SERVICE MANUAL**

**CHASSIS : PA-61A**

**MODEL : 50PC1DRA    50PC1DRA-UA  
          50PC1DR    50PC1DR-UA**

**CAUTION**

BEFORE SERVICING THE CHASSIS,  
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



# SAFETY PRECAUTIONS

## IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  in the Schematic Diagram and Replacement Parts List.  
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.  
Do not modify the original design without permission of manufacturer.

### General Guidance

An **Isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this monitor is blown, replace it with the same specified type.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

### Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between  $1M\Omega$  and  $5.2M\Omega$ .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

### Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

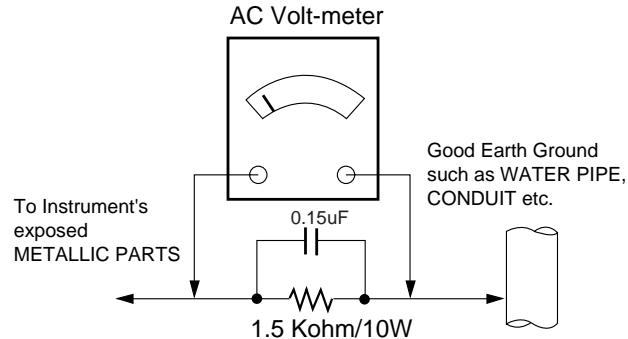
**Do not use a line Isolation Transformer during this check.** Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

### Leakage Current Hot Check circuit



CANADA: LG Electronics Canada, Inc. 550 Matheson Boulevard East Mississauga, Ontario L4Z 4G3

USA : LG Customer Interactive Center  
P.O.Box 240007, 201 James Record Road Huntsville,  
AL 35824  
Digital TV Hotline 1-800-243-0000

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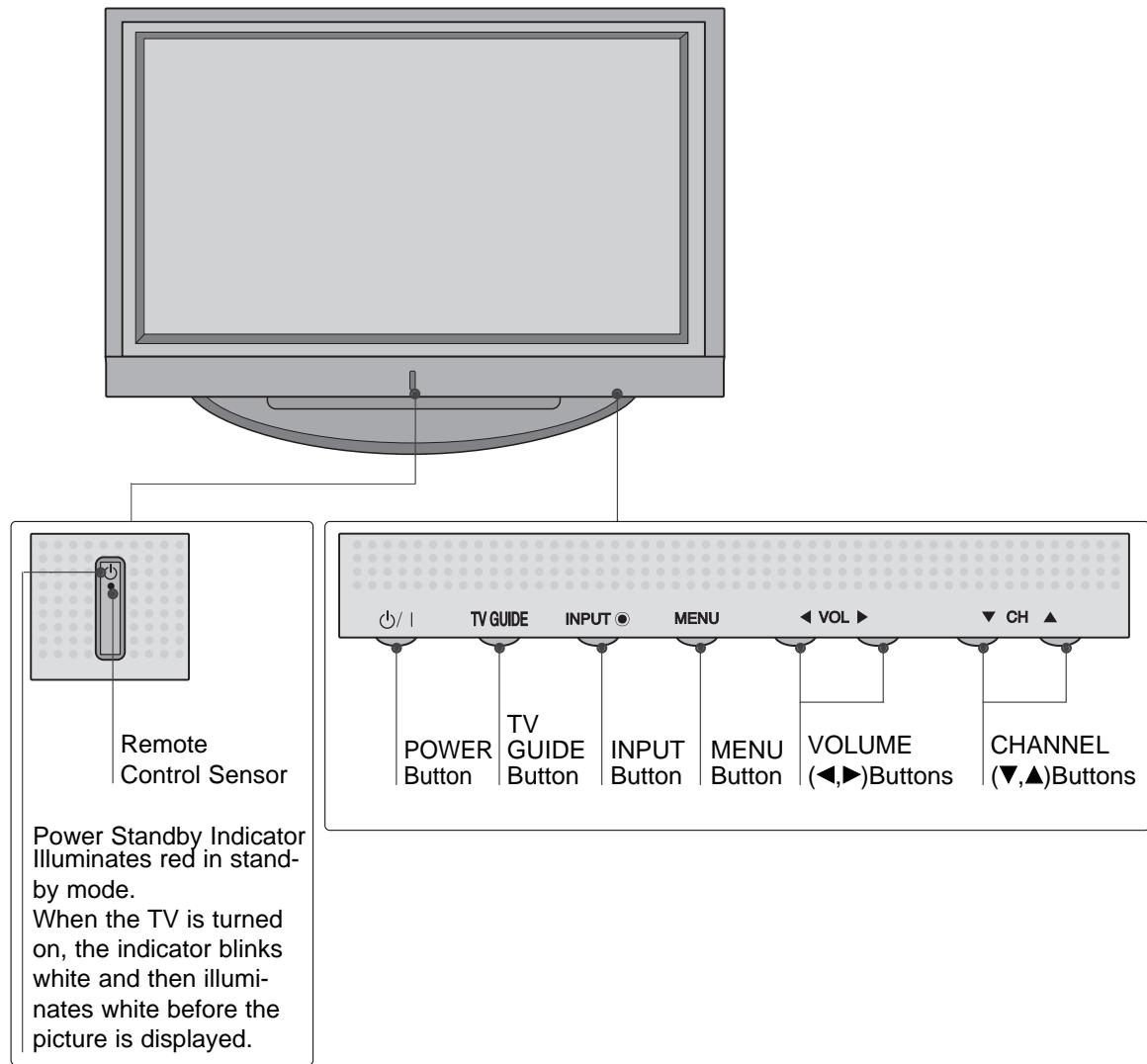
## DESCRIPTION OF CONTROLS

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### CONTROLS

This is a representation of the front panel of models 50PC1DR, 50PC1DRA series TVs.  
Here shown may be some what different from your TV.

#### Front Panel Controls

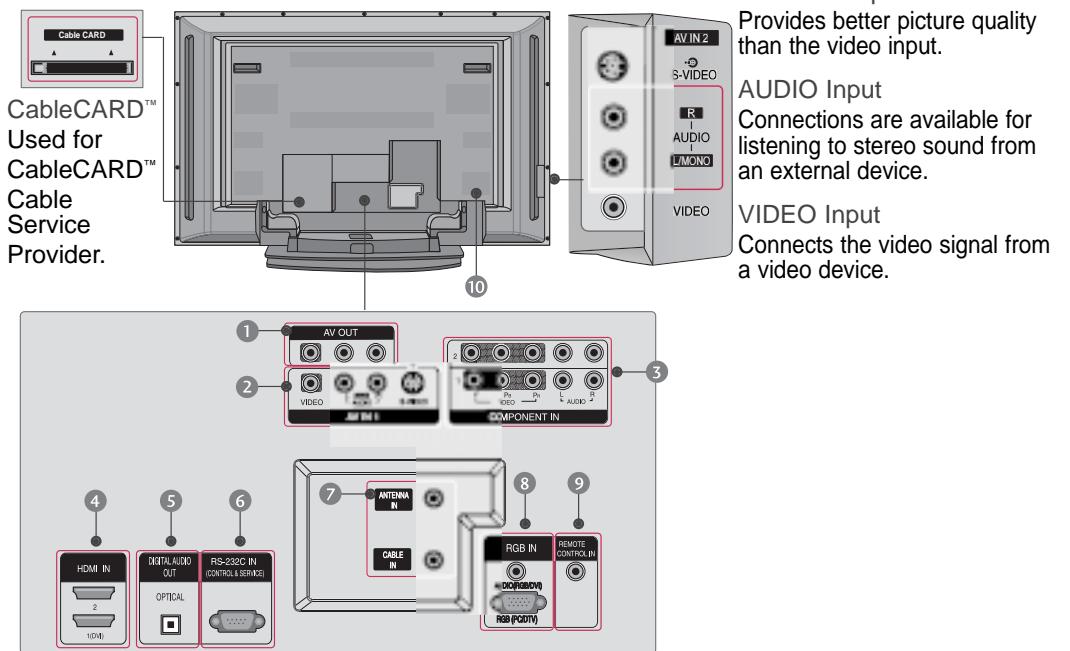


# DESCRIPTION OF CONTROLS

## CONNECTION OPTIONS

This is the back panel of models 50PC1DR, 50PC1DRA series TVs.

### Back Connection Panel



① AV OUT

Connect a second TV or monitor.

② AV (Audio/Video) IN 1

Connect audio/video output from an external device to these jacks.

S-VIDEO

Connect S-Video out from an S-VIDEO device.

③ COMPONENT IN

Connect a component video/audio device to these jacks.

④ HDMI IN

Connect a HDMI signal to 1(DVI) or 2. Or DVI(VIDEO)signal to the 1(DVI) port with a DVI to HDMI cable.

⑤ DIGITAL AUDIO OUT

Connect digital audio from various types of equipment.

Note: In standby mode, these ports do not work.

⑥ RS-232C IN (CONTROL & SERVICE) PORT

Connect to the RS-232C port on a PC.

⑦ ANTENNA IN

Connect over-the air signals to this jack.

CABLE IN

Connect cable signals to this jack.

⑧ RGB/AUDIO IN

Connect the monitor output from a PC to the appropriate input port.

⑨ Remote Control Port

Connect your wired remote control.

⑩ Power Cord Socket

For operation with AC power.

Caution :

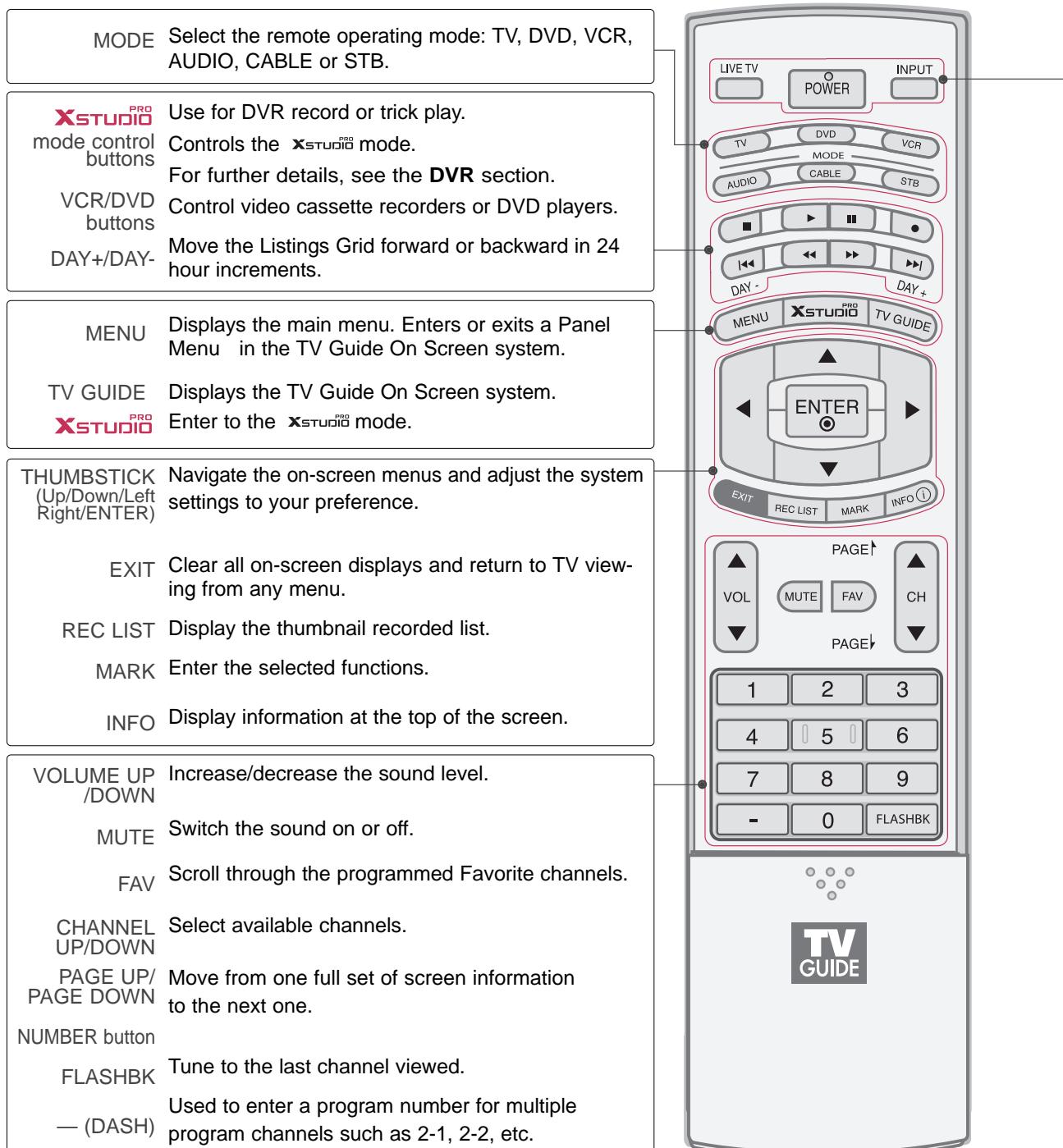
Never attempt to operate the TV on DC power.

# DESCRIPTION OF CONTROLS

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## REMOTE CONTROL KEY FUNCTIONS

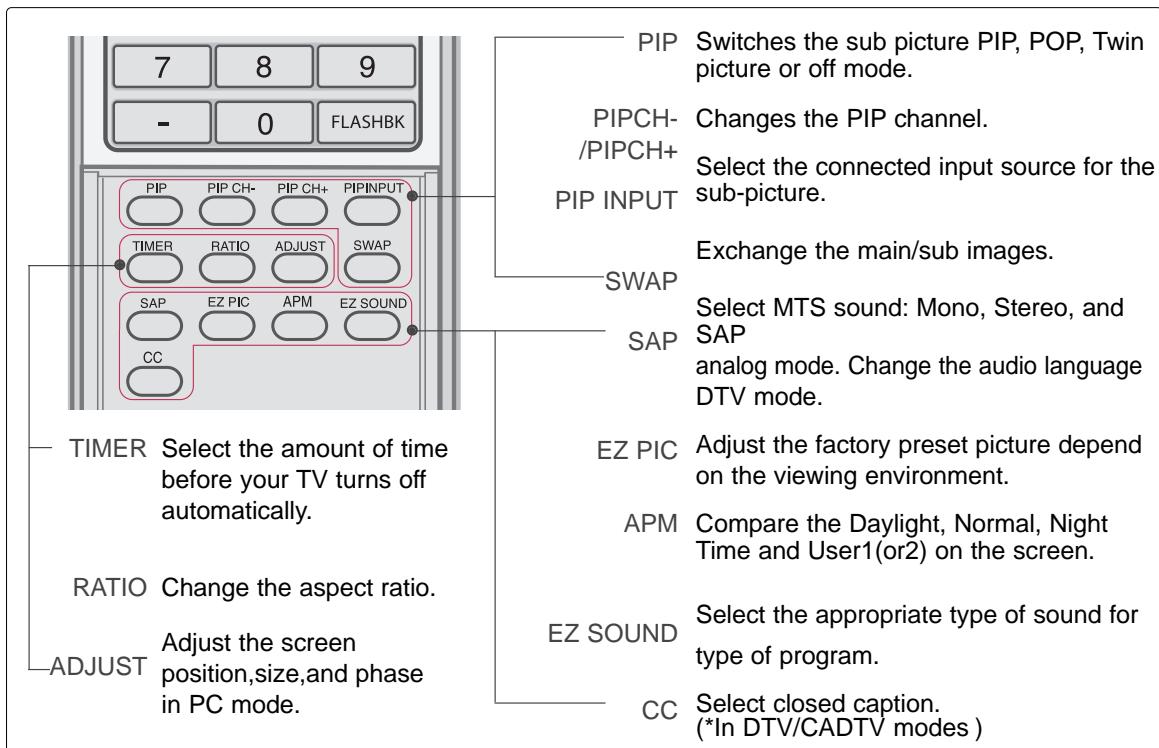
When using the remote control, aim it at the remote control sensor on the TV.



## DESCRIPTION OF CONTROLS

- POWER Turns your TV or any other programmed equipment on or off, depending on the mode.
- LIVE TV In AV 1-2, Component 1-2, RGB-DTV (or RGB-PC), HDMI1/DVI, and HDMI2 input sources, screen returns to the last TV channel.
- INPUT External input modes rotate in regular sequence: Antenna, Cable, AV1-2, Component 1-2, RGB-DTV (or RGB-PC), HDMI1/DVI and HDMI2 (AV 1-2, Component 1-2, RGB-DTV (or RGB-PC), HDMI1/DVI, and HDMI2 input sources are linked automatically, only if these are connected ).

### Inside the Sliding Cover



## SPECIFICATIONS

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| MODELS   | <b>50PC1DR / 50PC1DRA</b><br>( 50PC1DR-UA / 50PC1DRA-UA ) | <b>42LB1DR / 42LB1DRA</b><br>( 42LB1DR-UA / 42LB1DRA-UA ) |
|--|---|---|
| With Stand: Width x Height<br>x Depth (inches/mm)    | (51.3/1302.6)x(34.3/872)x(14/355.8)                       | (46.3/1175.0)x(30.2/768)x(11.8/300)                       |
| Weight (pounds/kg)                                   | (117 / 53.1)  | (90.4 / 41)   |
| Without Stand: Width x Height<br>x Depth (inches/mm) | (51.3/1302.6)x(31.9/810)x(4.3/108.7)                      | (46.3/1175.0)x(26.4/670)x(5.7/143.8)                      |
| Weight (pounds/kg)                                   | (97.7 / 44.3)   | (71.4 / 32.4)   |
| Resolution   | 1366 x 768 (Dot)  |   |
| Power requirement                                    | AC100-240V ~50/60Hz                                       |   |
| Television System                                    | NTSC-M, ATSC, 64 & 256 QAM                                |   |
| Program Coverage                                     | VHF 2-13, UHF 14-69, CATV 1-135, DTV 2-69, CADTV 1-135    |   |
| External Antenna Impedance                           | 75 Ω  |   |
| Operating Temperature Range                          | 32-104°F (0 ~ 40°C)                                       |   |
| Operating Humidity Range                             | Less than 80%   |   |

The specifications shown above may be changed without prior notice for quality improvement.

# ADJUSTMENT INSTRUCTIONS

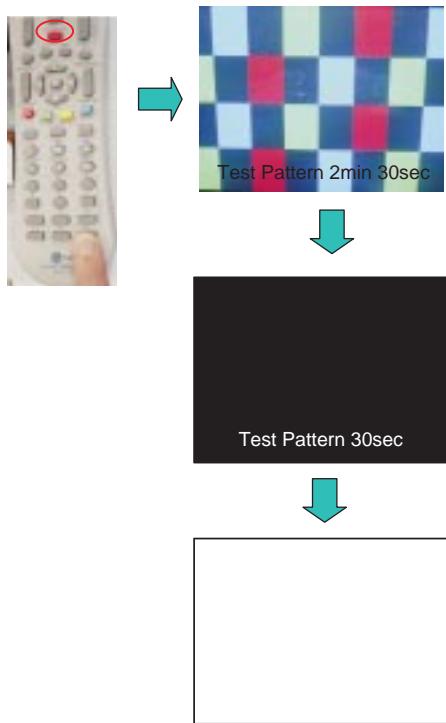
## 1. Application Object

These instructions are applied to all of the PDP TV, PA61A.

If you turn on a still screen more than 20 minutes (Especially Digital pattern(13 CH), Cross Hatch Pattern), an afterimage may occur in the black level part of the screen.

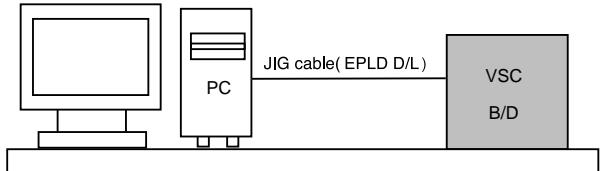
## 2. Notes

- (1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test equipment.
  - (2) Adjustments must be done in the correct order.
  - (3) The adjustments must be performed in the circumstance of  $25\pm5^{\circ}\text{C}$  of temperature and  $65\pm10\%$  of relative humidity if there is no specific designation.
  - (4) The input voltage of the receiver be must kept 110V, 60Hz when adjusting.
  - (5) The receiver must be operational for about 15 minutes prior to the adjustments.
- Preliminary action is applied to the test for afterimage discharge detection, and 100% FULL WHITE PATTERN must be operated automatically.
  - Test for afterimage discharge detection
    - 1) After pressing Power Only key(only operating by pressing Power Only key), Full Test Pattern(2 min 30sec) --> Full Black Pattern(30sec) --> After this state, Full White Pattern is displayed.  
(but you must preset the program for Full White State when you press the Main Power Off/On)
    - 2) Pattern Mode is deselected by pressing CH +/-, Exit Key.



\* Set is activated HEAT-RUN without signal generator in this mode.

## 3. CPLD Download



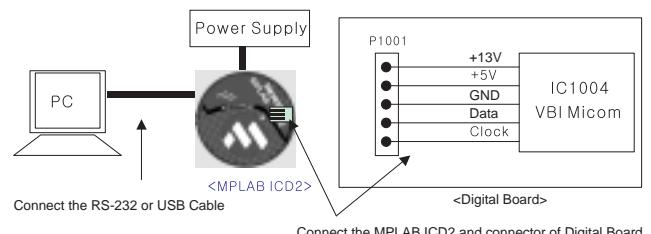
Connection Diagram of CPLD Download

- (1) Test Equipment: PC, Jig for download
- (2) Connect the power of VSC B/D.
- (3) Execute download program(iMPACK) of PC.
- (4) After executing the hot key on the Programmer, click icon
- (5) End after confirming

## 4. Gemstar VBI Micom Download

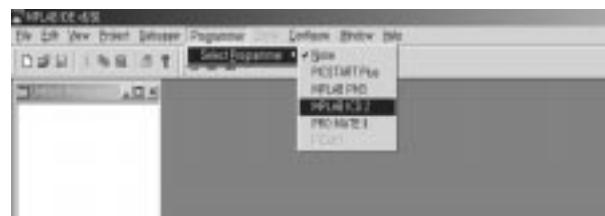
### 4-1. Preparation for Adjustment

- (1) As shown below, connect the MPLAB ICD2 equipment, PC and Digital Connector.
- (2) Turn on the MPLAB ICD2 POWER Supply.
- (3) After turn on the PC and MONITOR, select the 'MPLAB IDE' from the screen.



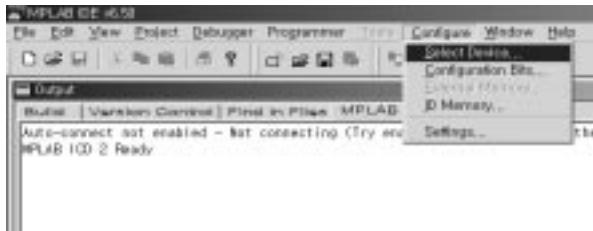
### 4-2. Adjustment Sequence

- (1) When the program is executed, select the MPLAB ICD2 from Programmer -> Select Programmer .

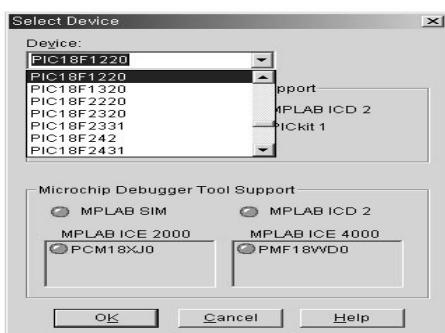


# ADJUSTMENT INSTRUCTIONS

(2) Select "Configure -> Select Device".



(3) When the "Select Device" window appears, select the PIC18F1220 from "Device" and press OK.

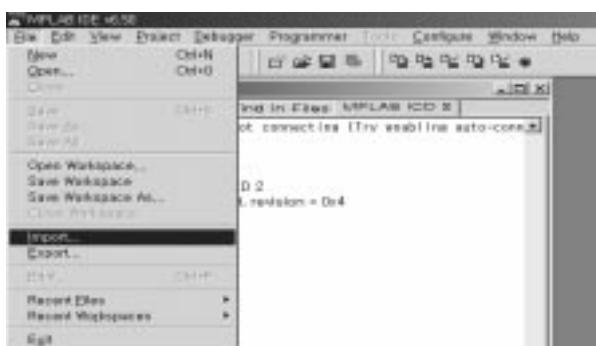


(4) Select "Programmer -> Connect".

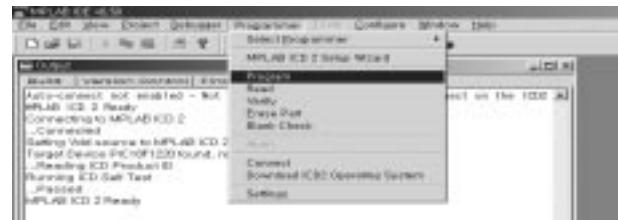


When connected with the Micom, the display message on the Output window appears as below.

(5) Select "File -> Import", select the Work HEX file and open.

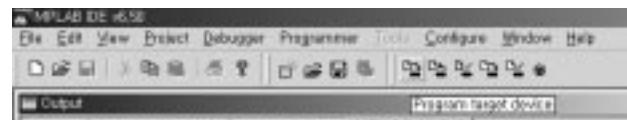


(6) Select "Programmer -> Program".



(7) Download is executed and about 5 seconds later, the "Programming succeeded" message is displayed on the Output window and the Download process is ended.

(8) The execution of process (6) is convenient when using the short-cut icon.



## 5. POD Certificate Download

### 5-1. Preparation for Adjustment

- (1) Connect the MEMORY JIG and PC.
- (2) Turn on the JIG MAIN POWER SWITCH.
- (3) After turn on the PC and MONITOR, execute the 'Certificate Downloader v1.4' from the screen.

### 5-2. Adjustment Sequence

- (1) After open the 'Certificate Downloader v1.4', enter Connection set and set the as same below.  
The port settings are determined by each PC's setup.

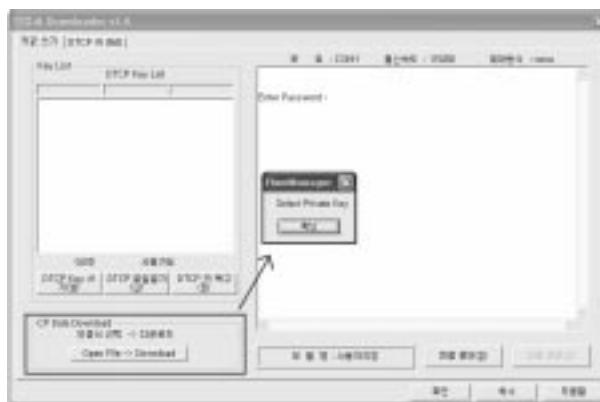


# ADJUSTMENT INSTRUCTIONS

- (2) Select 'Connection' and SET connected to RS-232C.  
(3) After clicking "Enter", confirm that "Enter Password:" appears.



- (4) Click the "OpenFile - Download" button from CP Data Download, 'select the Private Key' appears and click ENTER.



- (5) After clicking ENTER, the 'opens Private key' window appears and select the Private key applied to the SET. The Private Key file name is on the Label of the Digital Board.



- (6) When the Dialog window appears, click OK and the write work will begin.



- (7) When completed, click 'CP Data Download: OK'

\* When 'CP Data Download: OK' does not appear, certificate has not Download correctly.  
SET is rebooted and certificate Download work must be repeated.

## 6. Gemstar Operation Confirmation

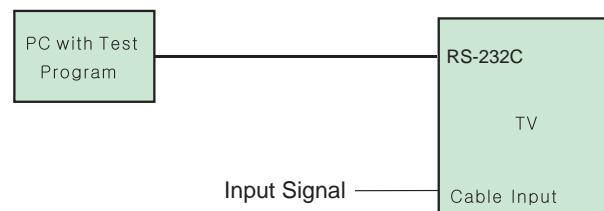
### 6-1. Required Test Equipment

- (1) PC with Factory Test Program  
(2) VBI Inserter (Norpak TES3) - Guide Data Discharge Equipment

\* In case of without the VBI Inserter(TES3), a VCR may be used.

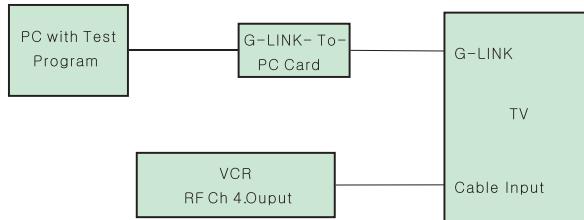
### 6-2. Preparation for Adjustments

- (1) In case of with VBI Inserter(TES3): Signal uses Cable input and set as below.



# ADJUSTMENT INSTRUCTIONS

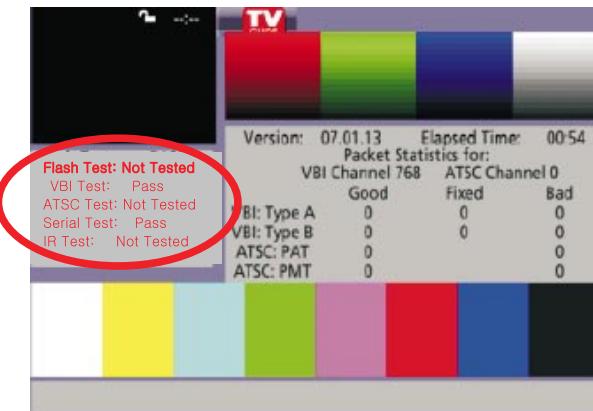
- (2) In case of without VBI Inserter(TES3): VCR uses Cable input and set as below.



\* Factory Test S/W must be set to "GlinkTo PC Card" ON.

## 6-3. Adjustment Confirmation Work

- (1) Turn on the TV and run Factory Test Program of PC.  
\* Program only needs to run once, regardless of set quantity.
- (2) Enter the EZ adjust menu by pressing Adjust on the Service Remote Control (S R/C).
- (3) Go to number 1 Gemstar and press Enter.
- (4) TV set screen will appear as shown.



- (5) Confirm that VBI Test and Serial Test PASS from the screen.

## 7. Cable Operation Confirmation

- (1) Confirm that the Cable Card is inserted in the slot.
- (2) Enter the EZ adjust menu by pressing the Adjust key on the Service Remote Control (S R/C).
- (3) Go to number 2 Cable Check and press the Right key (►) .
- (4) Confirm items below.

| Name              | Normal                  | Defective                    |
|-------------------|-------------------------|------------------------------|
| Descrambler Check | OK                      | Not OK                       |
| CableCARD         | CableCARD™ is inserted. | CableCARD™ is removed.       |
| OOB Path          | OK(Lock)                | Not OK(Unlock)               |
| FDC_SNR           | OK(20dB above)          | Not OK(20dB under)           |
| Video Signal      | Normal Screen           | Black Screen<br>(No Picture) |

| Cable Check          |                         |  |
|----------------------|-------------------------|--|
| 1. Descrambler Check | OK                      |  |
| 2. CableCARD         | CableCARD™ is inserted. |  |
| 3. OOB Path          | OK ( Lock )             |  |
| 4. FDC_SNR           | OK ( 23 dB )            |  |

# ADJUSTMENT INSTRUCTIONS

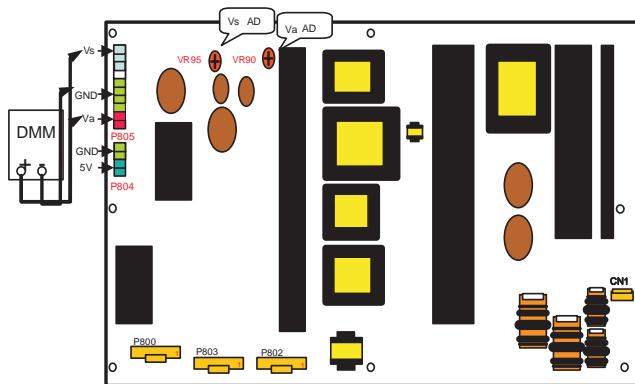
Each PCB Assy must be checked by Check JIG Set before assembly. (Especially, be careful Power PCB Assy which can cause Damage to the PDP Module.)

## 8. POWER PCB Assy Voltage Adjustment (Va, Vs Voltage Adjustment)

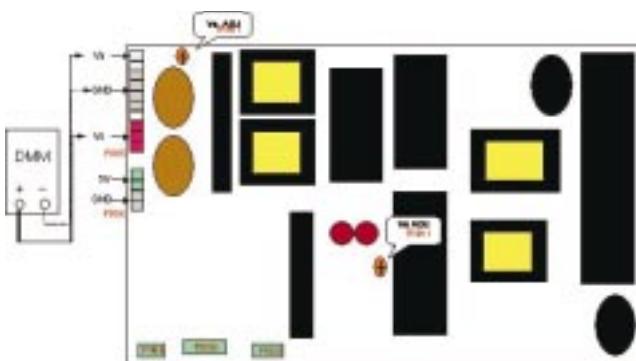
### 8-1. Test Equipment : D.M.M 1EA

### 8-2. Connection Diagram for Measuring

Refer to Fig 1.



<Fig. 1-1> Connection Diagram of Power Adjustment for Measuring (Power Board): 50"



<Fig. 1-2> Connection Diagram of Power Adjustment for Measuring (Power Board): 60"

### 8-3. Adjustment (50")

#### (1) Va Adjustment

- 1) Connect + terminal of D.M.M to Va pin of P805 and connect – terminal to GND pin of P805.
- 2) Adjust VR901 voltage to match that of the label on the Top/Right of the panel. (Deviation :  $\pm 0.5V$ )

#### (2) Vs Adjustment

- 1) Connect + terminal of D.M.M to Vs pin of P805 and connect – terminal to GND pin of P805.
- 2) Adjust VR951 voltage to match that of the label on the Top/Right of the panel. (Deviation :  $\pm 0.5V$ )

### 8-4. Adjustment (60")

#### (1) Va Adjustment

- 1) Connect + terminal of D.M.M to Va pin of P805 and connect – terminal to GND pin of P805.
- 2) Adjust RV501 voltage to match that of the label on the Top/Right of the panel. (Deviation :  $\pm 0.5V$ )

#### (2) Vs Adjustment

- 1) Connect + terminal of D.M.M to Vs pin of P805 and connect – terminal to GND pin of P805.
- 2) Adjust RV401 voltage to match that of the label on the Top/Right of the panel. (Deviation :  $\pm 0.5V$ )

## 9. EDID(The Extended Display Identification Data)/DDC (Display Data Channel) Download

This is the function that enables "Plug and Play".

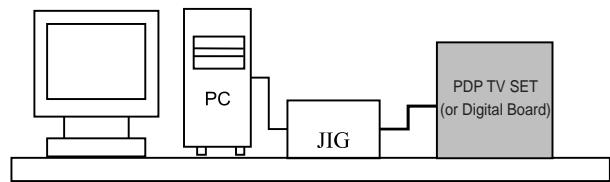
### 9-1. HDMI EDID Data Input

#### (1) Required Test Equipment

- 1) PC, Jig for adjusting DDC. (PC serial to D-sub Connection equipment)
- 2) S/W for writing DDC(EDID data write & read)
- 3) D-Sub cable
- 4) Jig for HDMI Cable connection

#### (2) Preparation for Adjustments & Setting of Device

- 1) Set devices as below and turn on the PC and JIG.
- 2) Open S/W for writing DDC (EDID data write & read). (operated in DOS mode)



<Fig. 2>

# ADJUSTMENT INSTRUCTIONS

## 9-2. EDID DATA for PA-61A

- EDID for HDMI-1 (DDC (Display Data Channel) Data)

EDID table =

|    | 0 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | A  | B  | C  | D  | E  | F  |
|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0  |   | 00 | FF | FF | FF | FF | FF | FF | 00 | 1E | 6D | 01 | 00 | 01 | 01 | 01 |
| 10 |   | 00 | 10 | 01 | 03 | 80 | 73 | 41 | 96 | 0A | CF | 74 | A3 | 57 | 4C | B0 |
| 20 |   | 09 | 48 | 4C | 2F | CE | 00 | 31 | 40 | 45 | 40 | 61 | 40 | 01 | 01 | 01 |
| 30 |   | 01 | 01 | 01 | 01 | 01 | 01 | 66 | 21 | 50 | B0 | 51 | 00 | 1B | 30 | 40 |
| 40 |   | 36 | 00 | C4 | 8E | 21 | 00 | 00 | 1E | 0E | 1F | 00 | 80 | 51 | 00 | 1E |
| 50 |   | 40 | 80 | 37 | 00 | C4 | 8E | 21 | 00 | 00 | 1C | 00 | 00 | 00 | FD | 00 |
| 60 |   | 4B | 1F | 3C | 09 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | FC |
| 70 |   | 00 | 4C | 47 | 20 | 54 | 56 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 01 | 99 |

|    | 0 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | A  | B  | C  | D  | E  | F  |
|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0  |   | 02 | 03 | 13 | F1 | 44 | 84 | 05 | 03 | 02 | 23 | 15 | 07 | 50 | 65 | 03 |
| 10 |   | 00 | 10 | 00 | 01 | 1D | 00 | 72 | 51 | D0 | 1E | 20 | 6E | 28 | 55 | 00 |
| 20 |   | 8E | 21 | 00 | 00 | 1E | 01 | 1D | 80 | 18 | 71 | 1C | 16 | 20 | 58 | 2C |
| 30 |   | 00 | C4 | 8E | 21 | 00 | 00 | 9E | 8C | 0A | D0 | 8A | 20 | E0 | 2D | 10 |
| 40 |   | 3E | 96 | 00 | C4 | 8E | 21 | 00 | 00 | 18 | 8C | 0A | D0 | 8A | 20 | E0 |
| 50 |   | 10 | 10 | 3E | 96 | 00 | 13 | 8E | 21 | 00 | 00 | 18 | 00 | 00 | 00 | 00 |
| 60 |   | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 70 |   | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | ED |

- EDID for HDMI-2 (DDC (Display Data Channel) Data)

EDID table =

|    | 0 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | A  | B  | C  | D  | E  | F  |
|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0  |   | 00 | FF | FF | FF | FF | FF | FF | 00 | 1E | 6D | 01 | 00 | 01 | 01 | 01 |
| 10 |   | 00 | 10 | 01 | 03 | 80 | 73 | 41 | 96 | 0A | CF | 74 | A3 | 57 | 4C | B0 |
| 20 |   | 09 | 48 | 4C | 2F | CE | 00 | 31 | 40 | 45 | 40 | 61 | 40 | 01 | 01 | 01 |
| 30 |   | 01 | 01 | 01 | 01 | 01 | 01 | 66 | 21 | 50 | B0 | 51 | 00 | 1B | 30 | 40 |
| 40 |   | 36 | 00 | C4 | 8E | 21 | 00 | 00 | 1E | 0E | 1F | 00 | 80 | 51 | 00 | 1E |
| 50 |   | 40 | 80 | 37 | 00 | C4 | 8E | 21 | 00 | 00 | 1C | 00 | 00 | 00 | FC | 00 |
| 60 |   | 47 | 20 | 54 | 56 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | FD |
| 70 |   | 00 | 38 | 4B | 1F | 3C | 09 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 01 |

|    | 0 | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | A  | B  | C  | D  | E  | F  |
|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0  |   | 02 | 03 | 13 | F1 | 44 | 84 | 05 | 03 | 02 | 23 | 15 | 07 | 50 | 65 | 03 |
| 10 |   | 00 | 20 | 00 | 8C | 0A | D0 | 8A | 20 | E0 | 2D | 10 | 10 | 3E | 96 | 00 |
| 20 |   | 8E | 21 | 00 | 00 | 18 | 8C | 0A | D0 | 8A | 20 | E0 | 2D | 10 | 10 | 3E |
| 30 |   | 00 | 13 | 8E | 21 | 00 | 00 | 18 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 40 |   | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 50 |   | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 60 |   | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| 70 |   | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 7B |

- EDID DATA for RGB

EDID table =

0 1 2 3 4 5 6 7 8 9 A B C D E F

|    |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0  |  | 00 | FF | FF | FF | FF | FF | FF | 00 | 1E | 6D | 01 | 00 | 01 | 01 | 01 |
| 10 |  | 00 | 10 | 01 | 03 | 80 | 73 | 41 | 96 | 0A | CF | 74 | A3 | 57 | 4C | B0 |
| 20 |  | 09 | 48 | 4C | 2F | CE | 00 | 31 | 40 | 45 | 40 | 61 | 40 | 01 | 01 | 01 |
| 30 |  | 01 | 01 | 01 | 01 | 01 | 01 | 66 | 21 | 50 | B0 | 51 | 00 | 1B | 30 | 40 |
| 40 |  | 36 | 00 | C4 | 8E | 21 | 00 | 00 | 1E | 0E | 1F | 00 | 80 | 51 | 00 | 1E |
| 50 |  | 40 | 80 | 37 | 00 | C4 | 8E | 21 | 00 | 00 | 1C | 00 | 00 | 00 | FC | 00 |
| 60 |  | 4B | 1F | 3C | 09 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | FC |
| 70 |  | 00 | 4C | 47 | 20 | 54 | 56 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 |

## 10. ADC-Set Adjustment

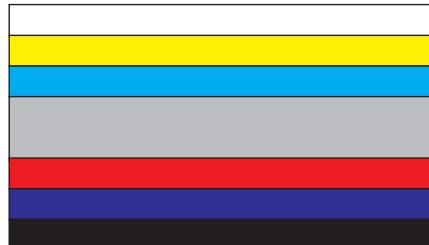
### 10-1. Synopsis

ADC-Set adjustment to set the black level and the Gain to optimum.

### 10-2. Test Equipment

Service R/C, 801GF(802B, 802F, 802R) or MSPG925FA Pattern Generator

(720P The Horizontal 100% Color Bar Pattern output will be possible and the output level will accurately have to be revised with  $0.7 \pm 0.1$ Vp-p)



<Fig. 3> Adjustment Pattern : 480i/1080i 60Hz HozTV31 Bar Pattern

### 10-3. Adjustment

#### (1) ADC 480i Component1 Adjustment

Check the connection Component1 to the Test Equipment

(1) Select Component1 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 480i Mode and select 'Normal' in screen.

(2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '4. ADC 480i Comp1'.

Pressing the Enter Key to adjust with automatic movement.

# ADJUSTMENT INSTRUCTIONS

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- (3) When the adjustment is over, 'ADC Component1 Success' is displayed.  
 (4) If the adjustment has errors, 'ADC Configuration Error' is displayed. And error message('Component Not Connection' or 'Change Format to 480i' or 'Check Pattern of device') is displayed for 1 second.

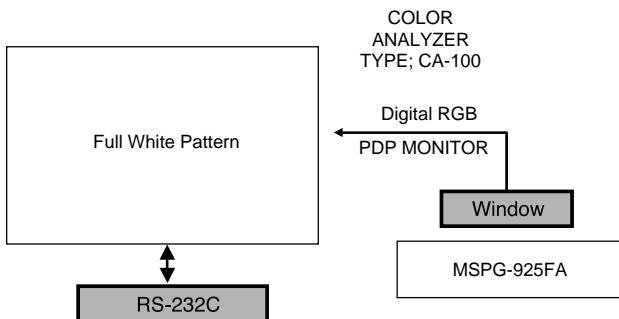
## (2) ADC 1080i Component2/RGB Adjustment

Check the connection Component2, RGB to the Test Equipment

- (1) Select Component2 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 1080i Mode and select 'Normal' in screen.
- (2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '5. ADC 480p Comp2/RGB'. Pressing the Enter Key to adjust with automatic movement.
- (3) When the adjustment is over, 'ADC Component2 Success' is displayed. If the adjustment has errors, 'ADC Configuration Error' is displayed.
- (4) After the Component2 adjustment is over, convert the RGB-DTV Mode and display Pattern. When the adjustment is over, 'ADC RGB\_DTV Success' is displayed.
- (5) Readjust after confirming the case Pattern or adjustment condition where the adjustment errors. Error message is 'Component Not Connection' or 'Change Format to 480i' or 'Check Pattern of device'.
- (6) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

## 11. Adjustment of White Balance

### 11-1. Connection Diagram of Equipment for Measuring (Automatic Adjustment)



<Fig. 4> Connection Diagram of Automatic Adjustment

### \* RS-232C Command (Automatic Adjustment)

|        | RS-232C COMMAND<br>[CMD ID DATA] |     |      | Min | CENTER<br>(DEFAULT) |     |      | Max |
|--------|----------------------------------|-----|------|-----|---------------------|-----|------|-----|
|        | Cool                             | Mid | Warm |     | Cool                | Mid | Warm |     |
| R Gain | Jg                               | Ja  | Jd   | 00  | 184                 | 161 | 192  | 255 |
| G Gain | Jh                               | Jb  | Je   | 00  | 187                 | 183 | 159  | 255 |
| B Gain | Ji                               | Jc  | Jf   | 00  | 192                 | 192 | 95   | 255 |
| R Cut  |                                  |     |      |     | 64                  | 64  | 64   | 127 |
| G Cut  |                                  |     |      |     | 64                  | 64  | 64   | 127 |
| B Cut  |                                  |     |      |     | 64                  | 64  | 64   | 127 |

### 11-2. Adjustment of White Balance

- Operate the Zero-calibration of the CA-210, then attach sensor to PDP module surface when you adjust.
- Manual adjustment is also possible by the following sequence.

- (1) HEAT RUN at least 30 minutes by pressing the Power only Key on the Service Remote Control and adjust.
- (2) After attaching sensor to center of screen, select 'White-Balance' of 'Ez - Adjust' by pressing the ADJ KEY on the Service R/C. Then enter adjustment mode by pressing the Right KEY (▶). This time white pattern is displayed.
- (3) Adjust the Hight Light using R Gain/G Gain(Cool).  
 Adjust the Hight Light using G Gain/R Gain(Medium).  
 Adjust the Hight Light using G Gain/B Gain(Warm).  
 (R Gain: 192, B Gain 192, R-Cut/G-Cut/B-Cut: 64 Fix.)
- (4) Adjust using Volume +/- KEY.
- (5) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

High Level: 216gray

#### [Cool]

X;  $0.278 \pm 0.015$  Y;  $0.279 \pm 0.015$   
 Color temperature:  $11000^{\circ}\text{K} \pm 1000^{\circ}\text{K}$   
 dUV: -3dUV

#### [Medium]

X;  $0.287 \pm 0.015$  Y;  $0.289 \pm 0.015$   
 Color temperature:  $9300^{\circ}\text{K} \pm 1000^{\circ}\text{K}$   
 dUV: -3dUV

#### [Warm]

X;  $0.314 \pm 0.015$  Y;  $0.318 \pm 0.015$   
 Color temperature:  $6500^{\circ}\text{K} \pm 1000^{\circ}\text{K}$   
 dUV: -3dUV

# ADJUSTMENT INSTRUCTIONS

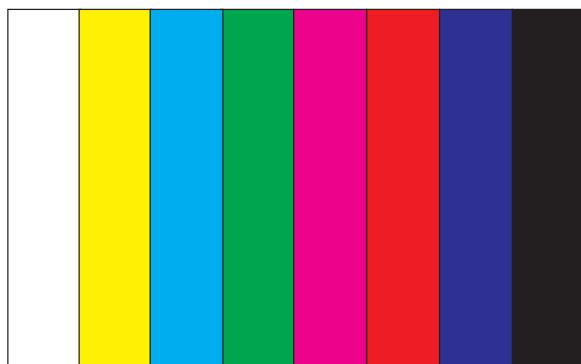
## 12. Video(uPD)-Set

Adjustment for reduce color difference Main/Sub screen of RF or Video signal.

### 12-1. Adjustment

(1) Connection the Video Signal Generator(Master) to the TV AV Input terminal.

After input pattern(Model: 201(NTSC-M), Pattern: 32(100% color Bar), pressing the 'Rev' button and appear as below figure

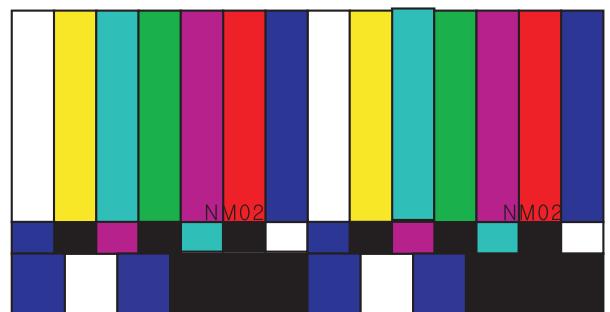


Model: 201(NTSC-M), Pattern: 32(100% color Bar)

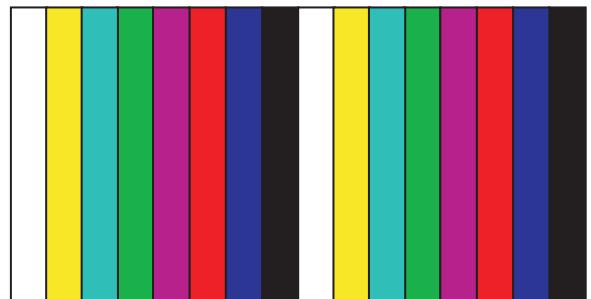
(2) After receive signal, confirm the signal receiving.  
And Enter the 'EZ-ADJUST' by pressing the ADJ Key on the Service R/C.

Select '5. Video(UPD)-Set' and enter the adjustment mode by pressing the right key (►).

(3) When enter the adjustment mode, displayed the TV 2CH SPLIT Screen automatic at picture and appear as below figure.



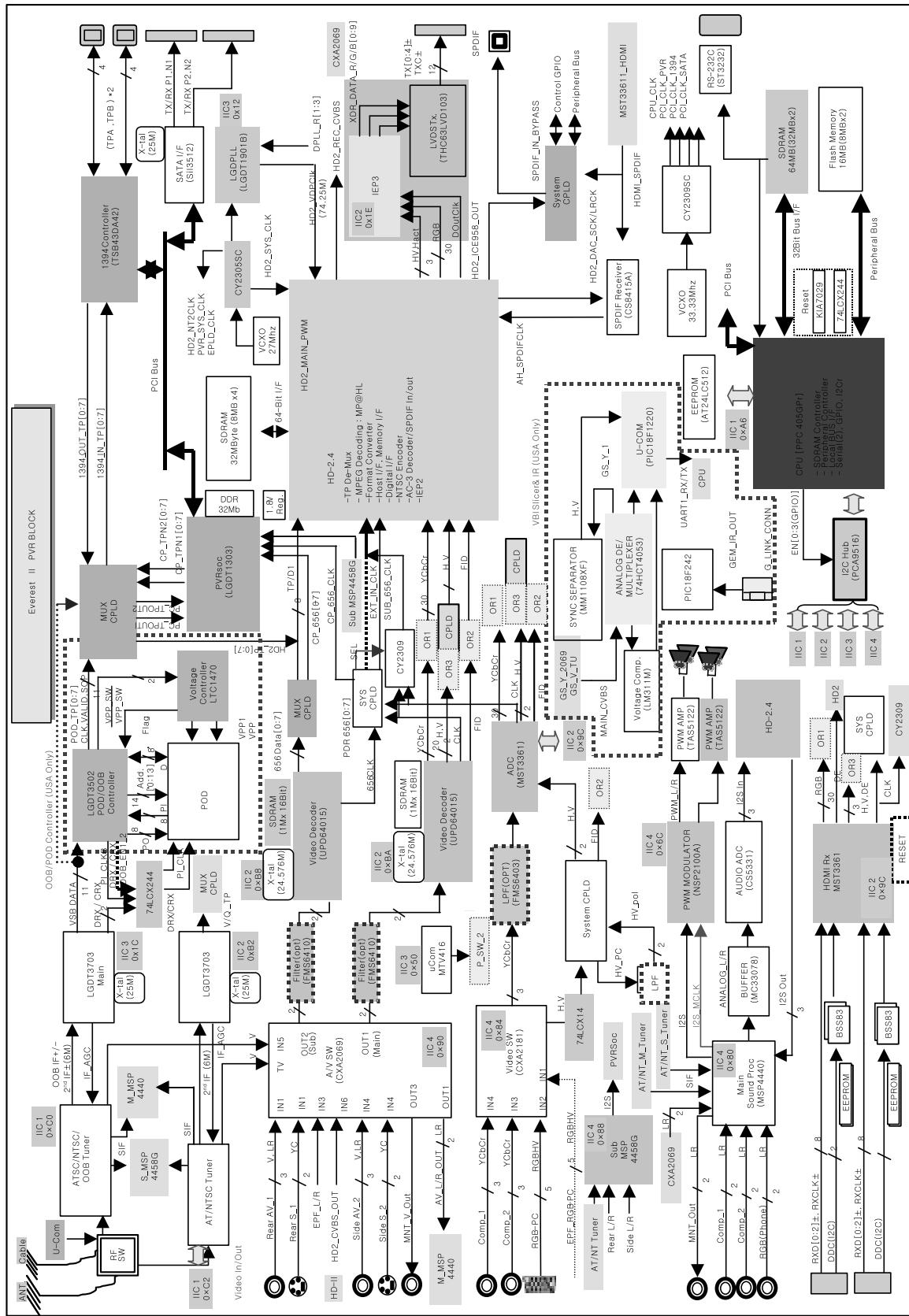
(4) When the automatic adjustment is over, 'RF Configuration Success' is displayed. If the adjustment has errors, 'Video Configuration Error' is displayed.



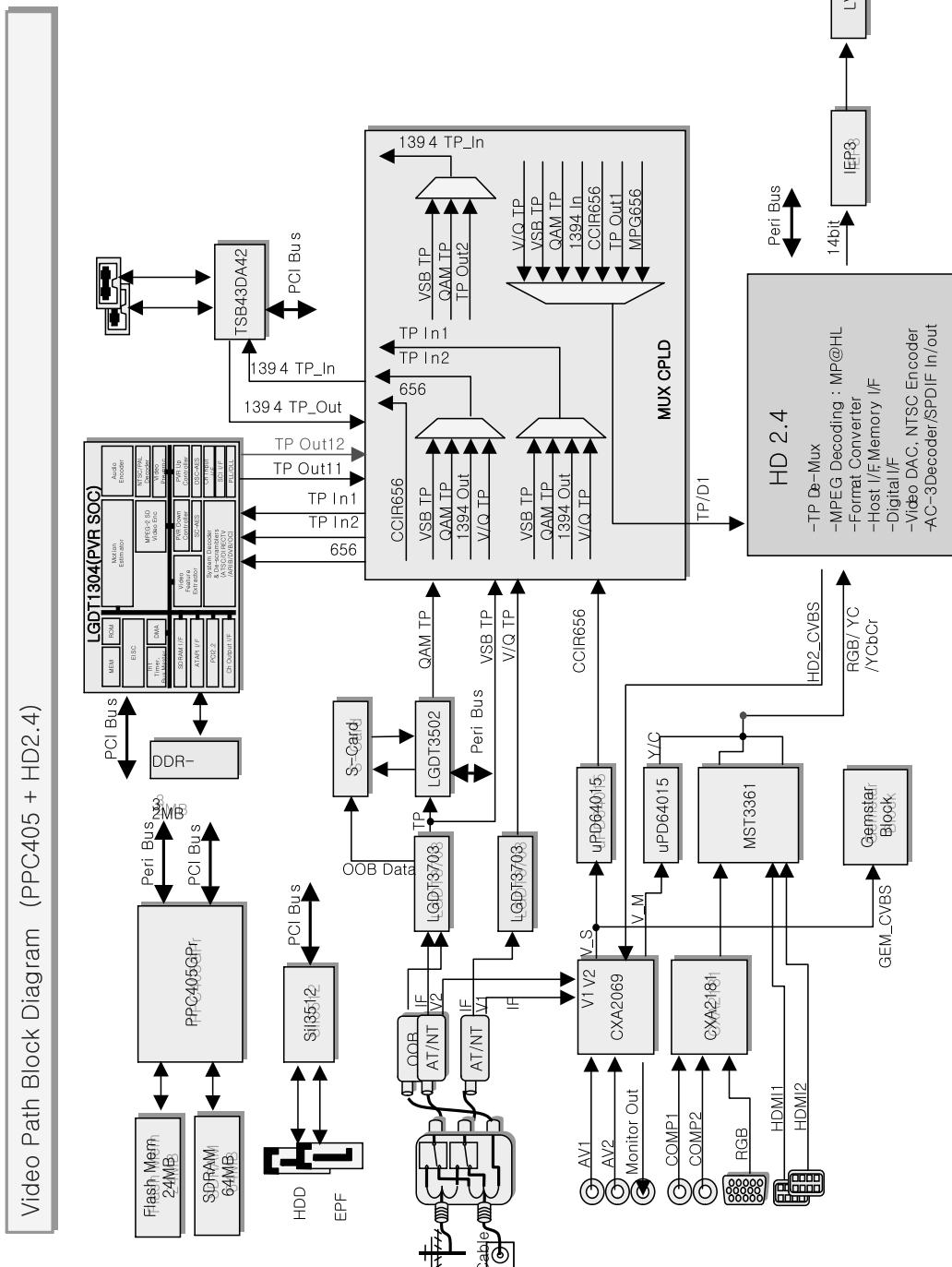
(5) After the RF signal automatic adjustment is over, convert the Video Mode as below figure and adjust with automatic movement the Video Mode.

When the automatic adjustment is over, 'Video Configuration Success' is displayed. If the adjustment has errors, 'Video Configuration Error' is displayed.

# BLOCK DIAGRAM

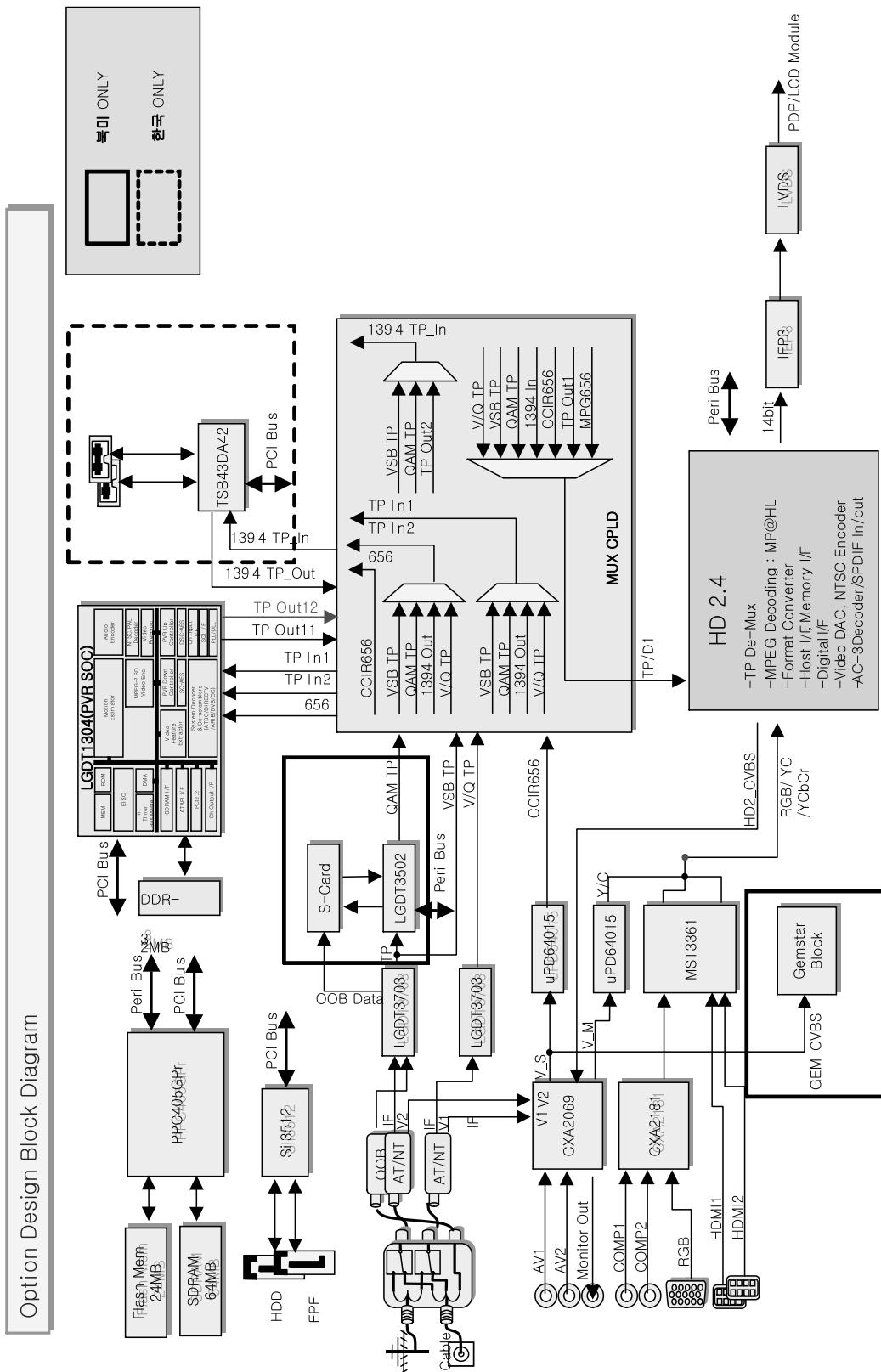


# BLOCK DIAGRAM



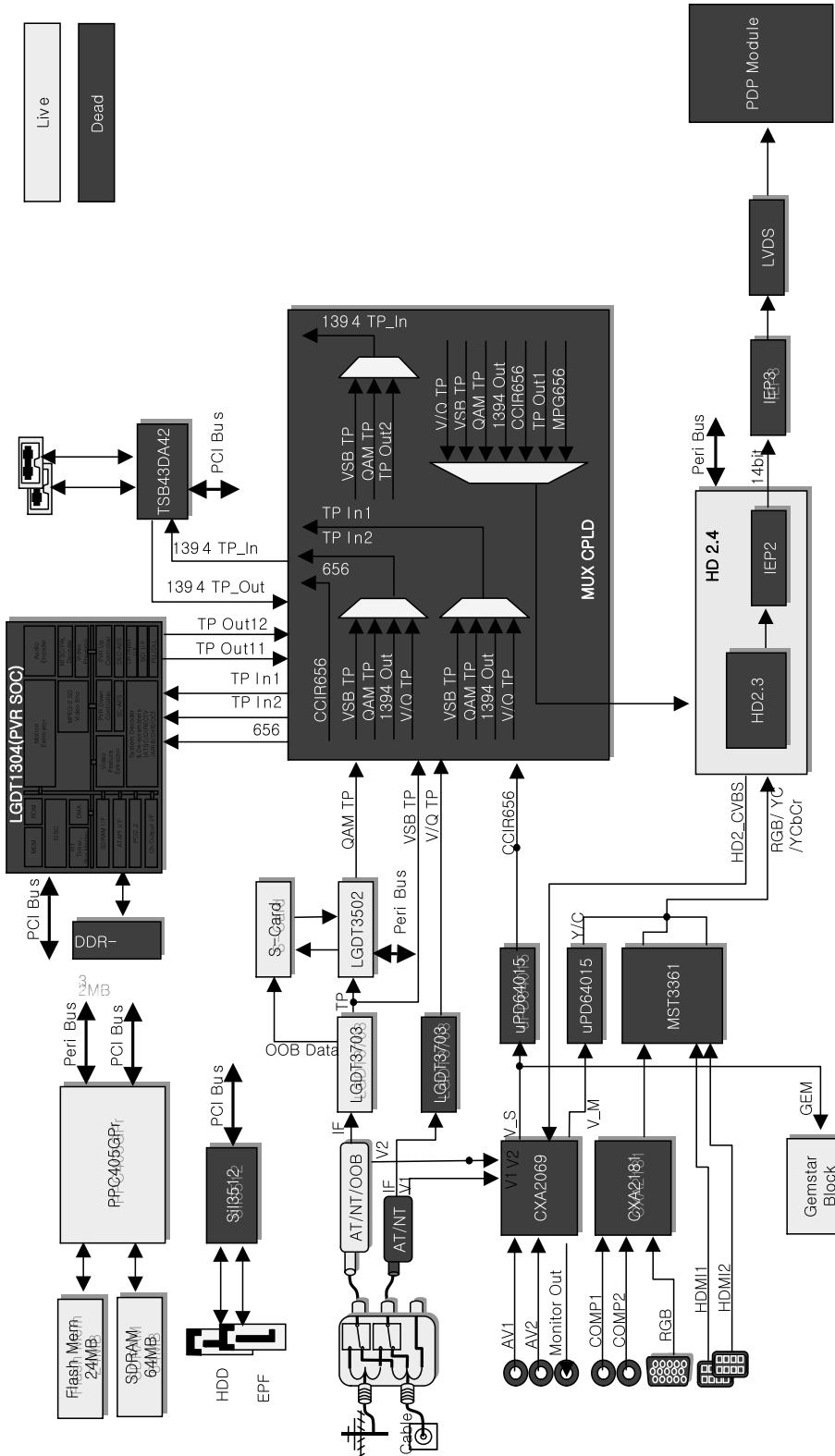
# BLOCK DIAGRAM

Option Design Block Diagram



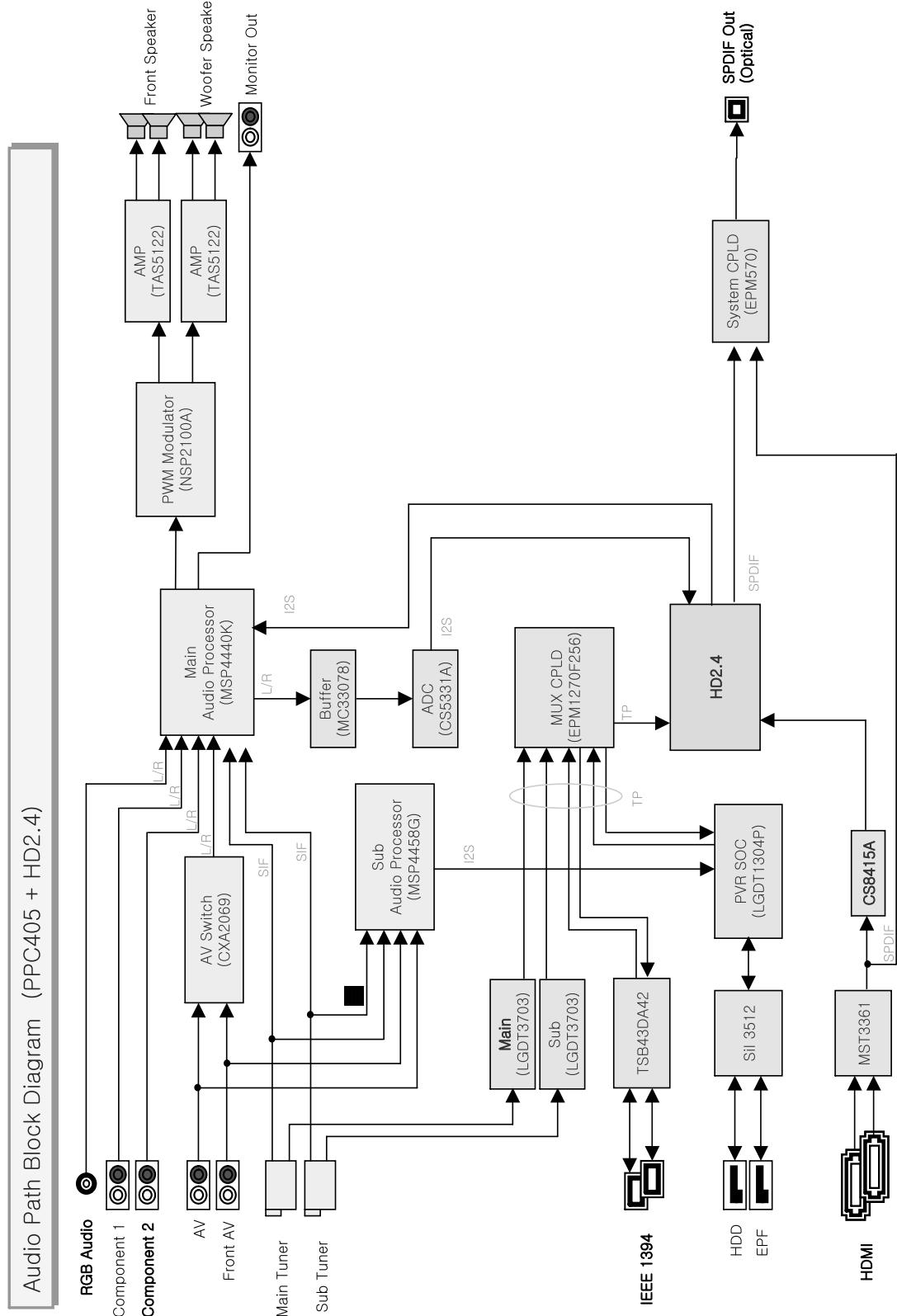
# BLOCK DIAGRAM

Power Saving Mode block diagram

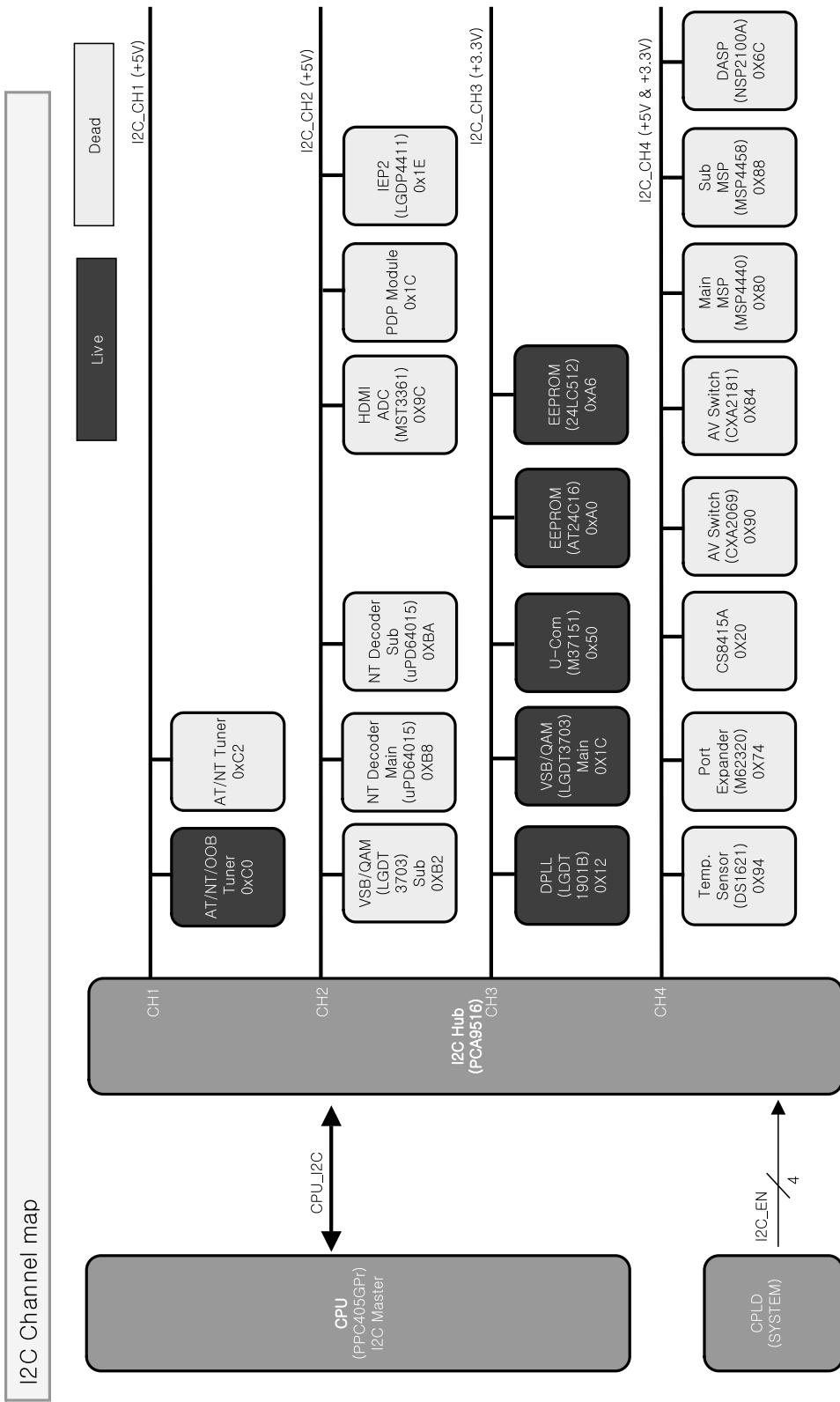


HD2.4는 peri-bus에 룰려 있기 때문에 H/W적 전원차단은 없고 S/W적으로 task를  
죽이고 자체 Power saving mode로 들어간다.

# BLOCK DIAGRAM



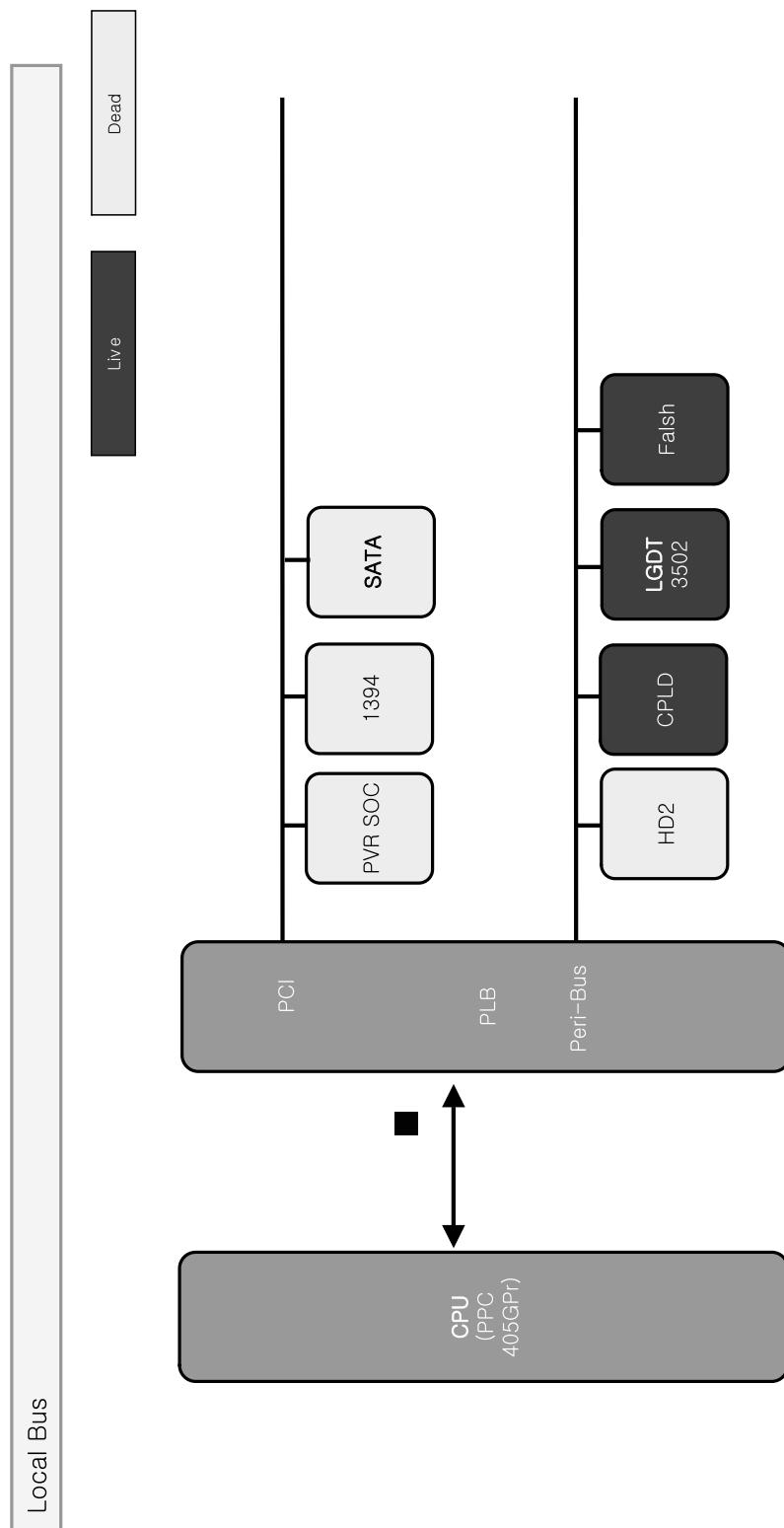
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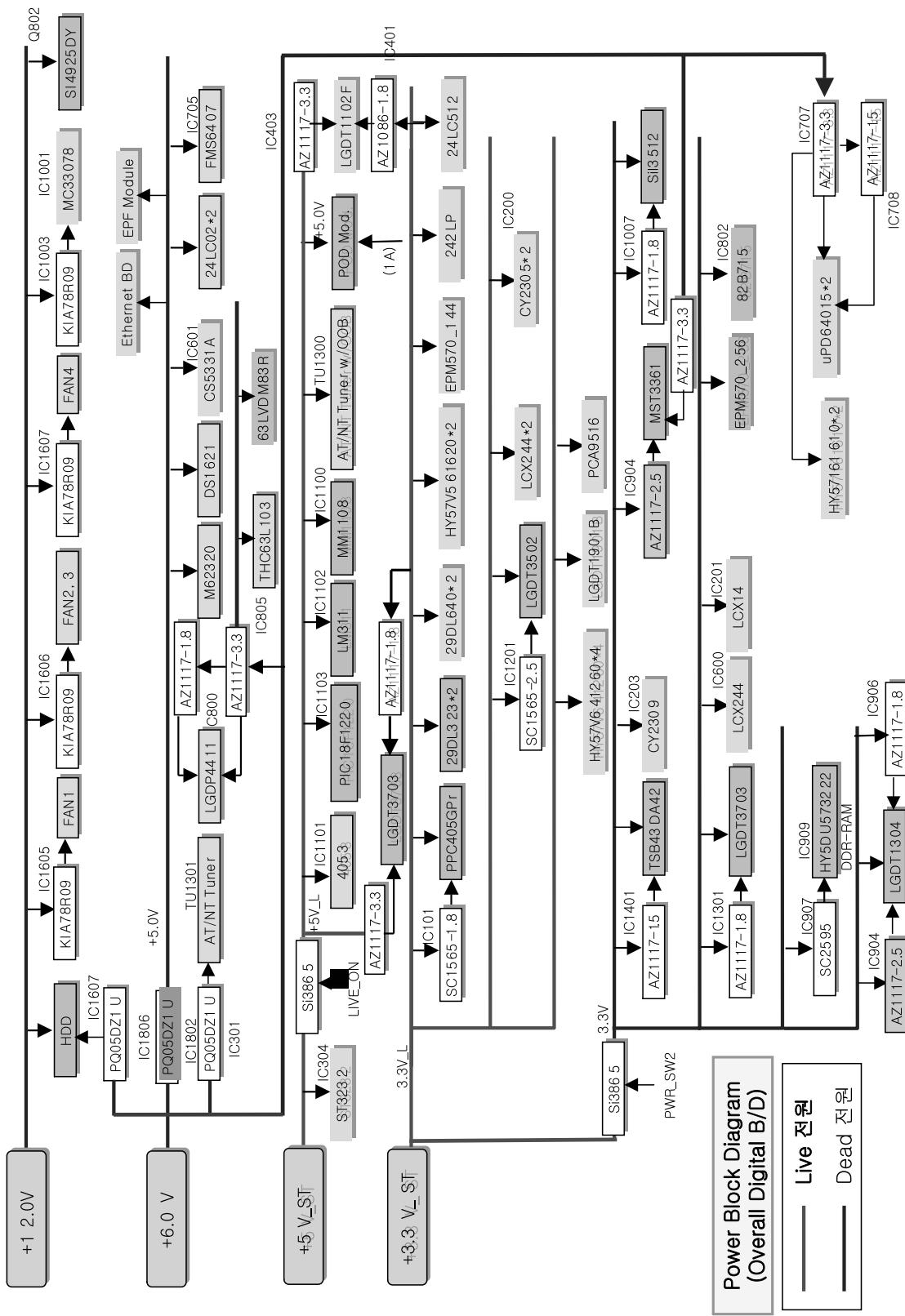
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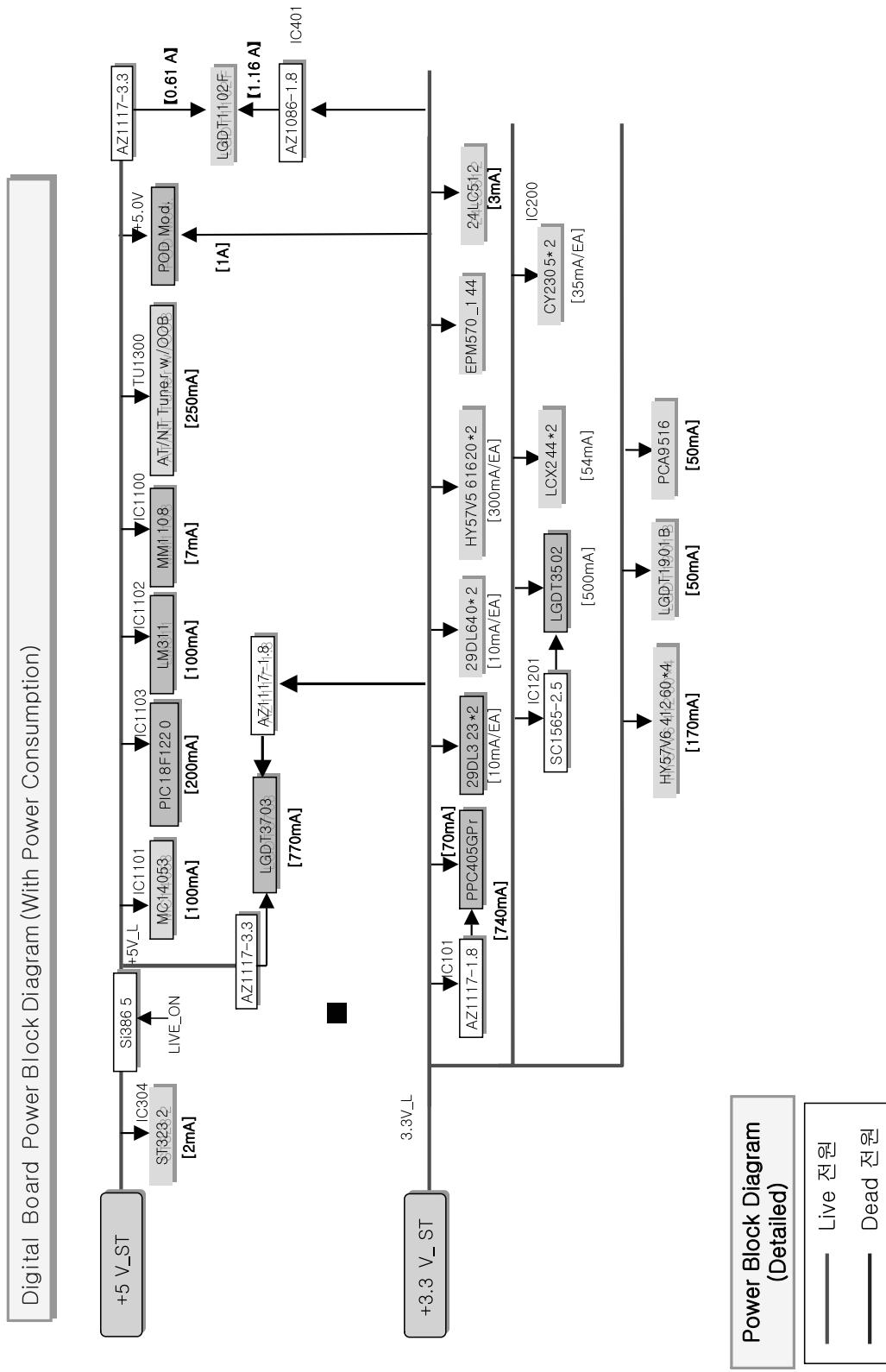
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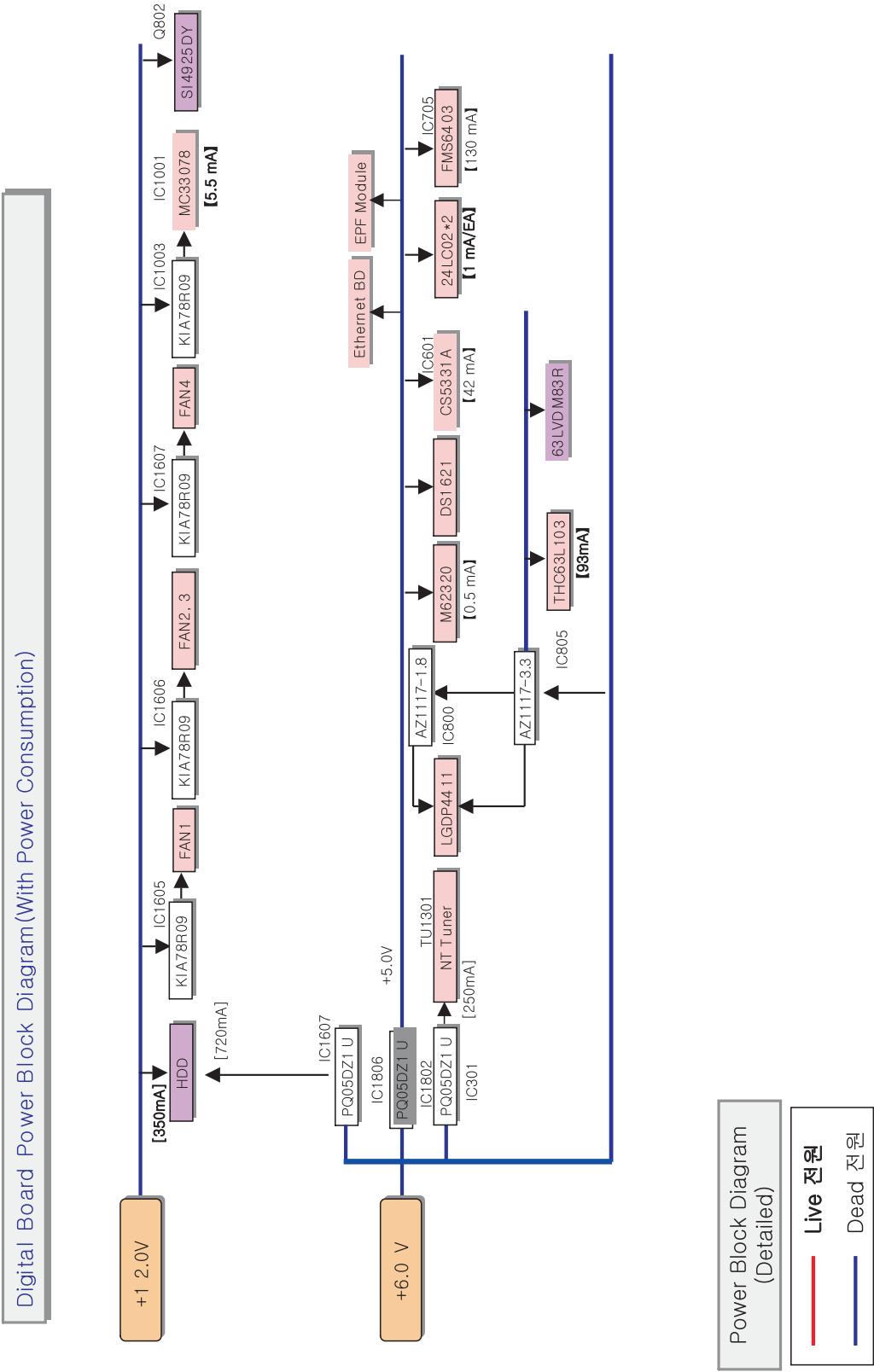
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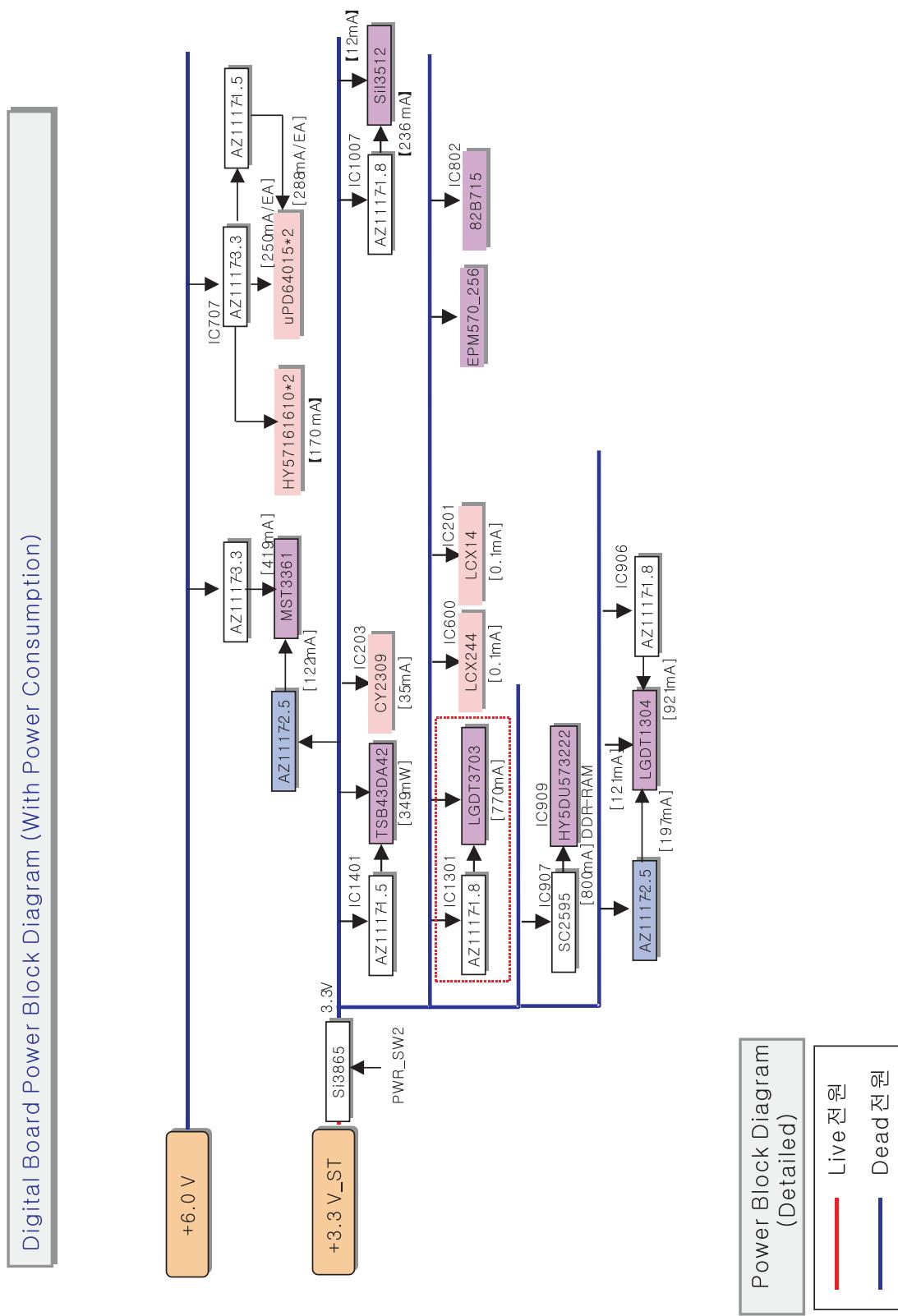
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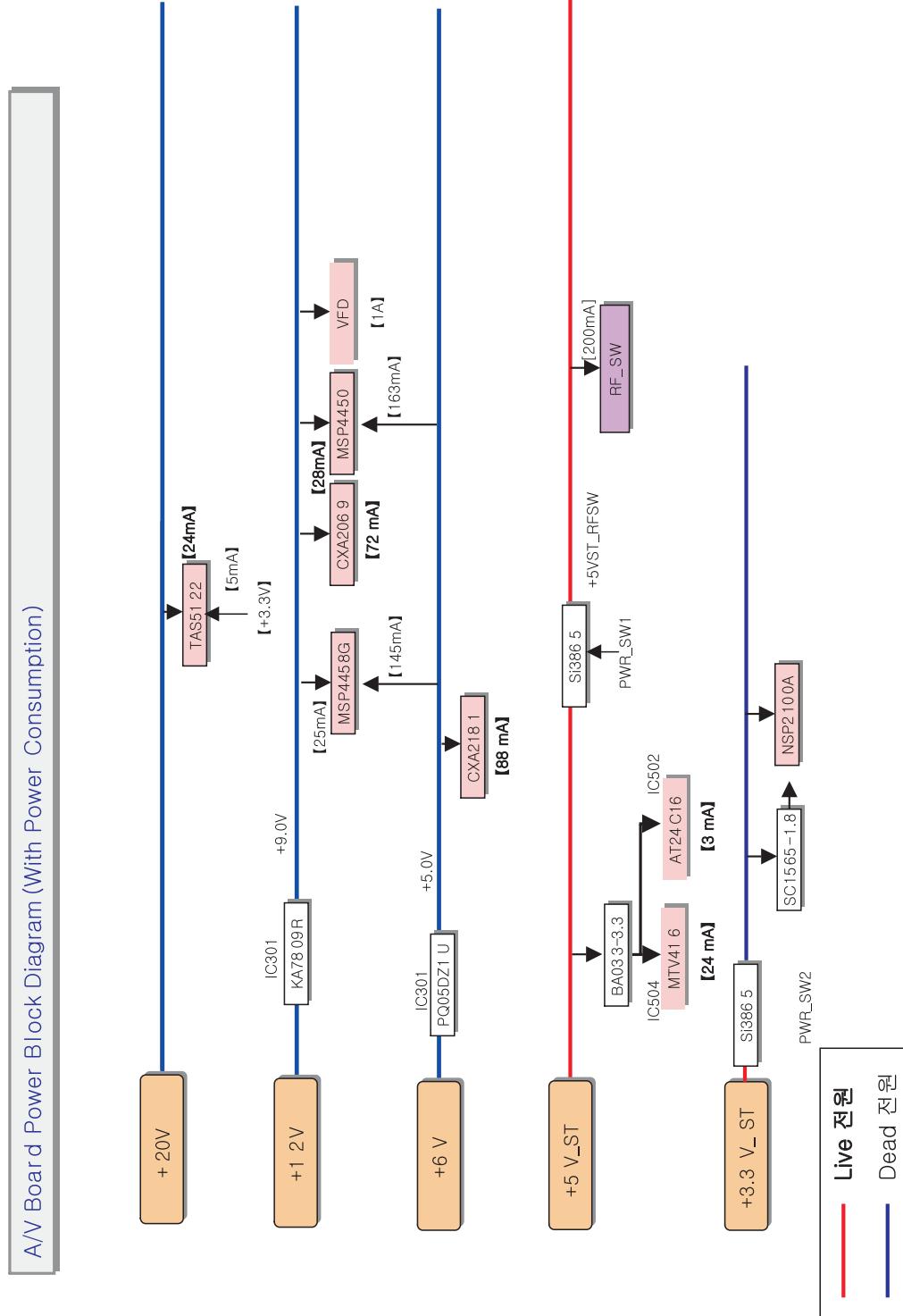
# BLOCK DIAGRAM



# BLOCK DIAGRAM



## BLOCK DIAGRAM



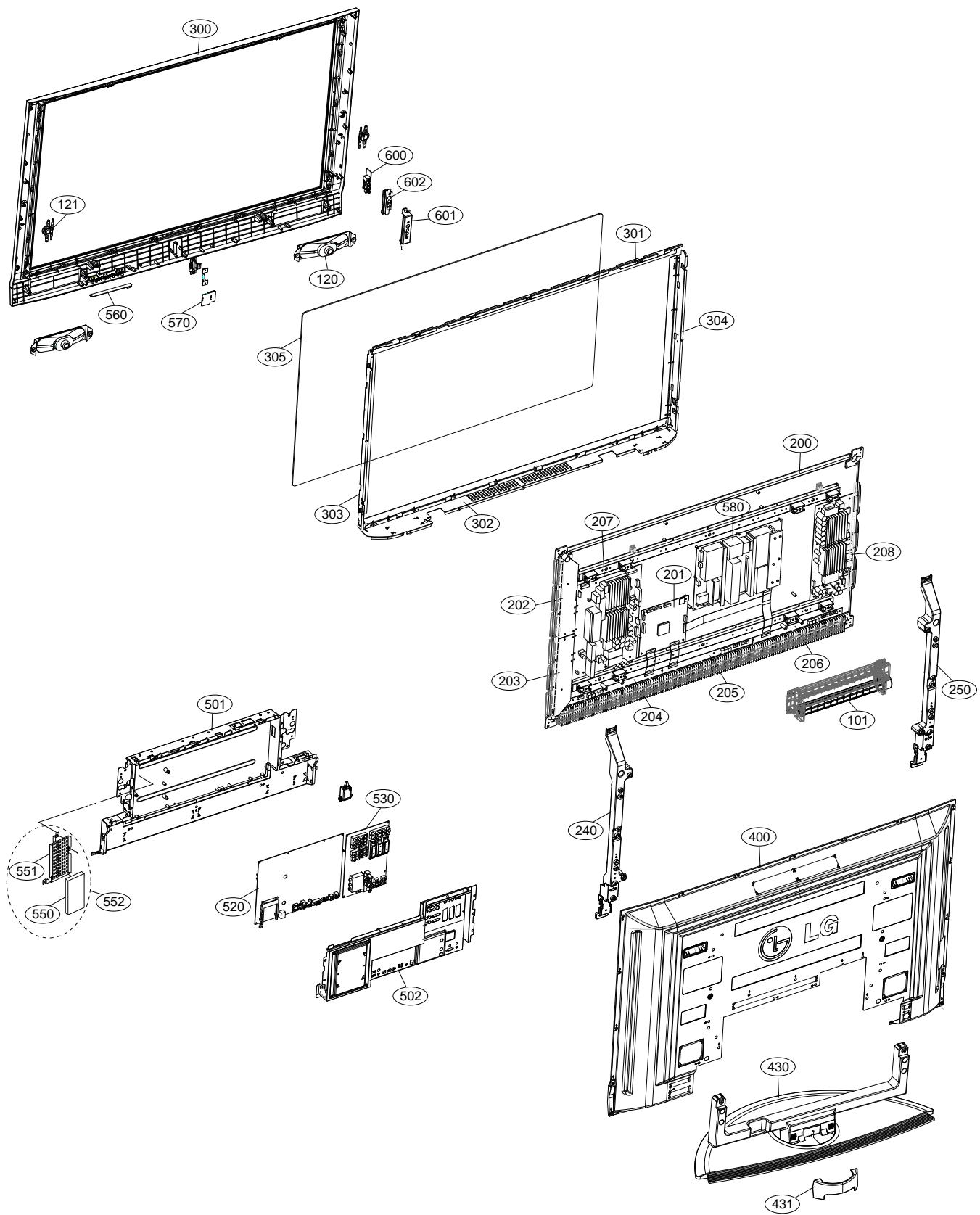
## **NOTES**

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## EXPLODED VIEW

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## EXPLODED VIEW PARTS LIST

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| No. | Part No.    | Description   |
|-----|-------------|---|
| 101 | 5900904001A | FAN,C4230S12B2-LG DONGYANG DC CROSSFLOW 12V 60MM 1100RPM 3P 850MM CFF     |
| 120 | 6400WMCX04A | SPEAKER,WOOFER G2060102 8OHM 15W 82DB OTHERS 100HZ 240*57MM               |
| 121 | 6400DTTX02B | SPEAKER,TWEETER EN15D-6659 8OHM 15/20W 78DB OTHERS PC1 MODEL              |
| 200 | 6348Q-C049N | PDP,50 1365*768 PDP50X30010.AKDDG   |
|     | 6348Q-C049F | PDP,50 1365*768 PDP50X30010.DDDRB CSKD                                    |
| 201 | 6871QCH059B | PCB ASSEMBLY,DISPLAY CTRL ASSY 50 CTRL WITH AU CONNECTOR                  |
| 202 | 6871QDH088A | PCB ASSEMBLY,DISPLAY YDRV ASSY 50X3 YDRV TOP                              |
| 203 | 6871QDH089A | PCB ASSEMBLY,DISPLAY YDRV ASSY 50X3 YDRV BOTTOM                           |
| 204 | 6871QLH049D | PCB ASSEMBLY,DISPLAY XRLT ASSY 50 X3 FFC TCP AU                           |
| 205 | 6871QXH030D | PCB ASSEMBLY,DISPLAY XRCT ASSY 50 X3 FFC TCP AU                           |
| 206 | 6871QRH057D | PCB ASSEMBLY,DISPLAY XRRT ASSY 50 X3 FFC TCP AU                           |
| 207 | 6871QYH039A | PCB ASSEMBLY,DISPLAY YSUS ASSY FOR 50X3                                   |
| 208 | 6871QZH044A | PCB ASSEMBLY,DISPLAY ZSUS ASSY FOR 50X3                                   |
| 240 | 4980900101A | SUPPORTER ASSY,AL NON   |
|     | 4980900101C | SUPPORTER ASSY,AL SKD   |
| 250 | 4980900102A | SUPPORTER ASSY,AL VERTICAL L  |
|     | 4980900102C | SUPPORTER ASSY,AL VERTICAL L SKD  |
| 300 | 30919E0004F | CABINET ASSEMBLY,50PC1DRA-UA BRAND  |
|     | 30919E0004B | CABINET ASSEMBLY,50PC1DR-UA BRAND   |
|     | 30919E0004E | CABINET ASSEMBLY,50PC1DRA-UA BRAND SKD                                    |
|     | 30919E0004D | CABINET ASSEMBLY,50PC1DR-UA BRAND SKD                                     |
| 301 | 4980900103A | SUPPORTER,FILTER AL 50PC1R-TA, TOP  |
|     | 4980900103B | SUPPORTER,FILTER AL 50PC3D-UD.SUSULLJR                                    |
| 302 | 4980900104A | SUPPORTER,FILTER AL 50PC1R-TA, BOTTOM                                     |
|     | 4980900104B | SUPPORTER,FILTER AL 50PC3D-UD.SUSULLJR BOTTOM                             |
| 303 | 4980900105A | SUPPORTER,FILTER AL 50PC1R-TA , RIGHT                                     |
|     | 4980900105B | SUPPORTER,FILTER AL 50PC3D-UD.SUSULLJR RIGHT                              |
| 304 | 4980900106A | SUPPORTER,FILTER AL 50PC1R-TA , LEFT                                      |
|     | 4980900106B | SUPPORTER,FILTER AL 50PC3D-UD.SUSULLJR LEFT                               |
| 305 | 5230V00025B | FILTER(MECH),LG CHEMICAL GLASS FILTER (40%)                               |
| 400 | 3809900102C | BACK COVER ASSEMBLY,50PC1 2PHONE DIGITAL                                  |
|     | 3809900102G | BACK COVER ASSEMBLY,50PC1DR-UA.SUSULLJR SKD                               |
| 430 | 3501900004C | BOARD ASSEMBLY,STAND 50PC1DRA-UA PA61A                                    |
|     | 3501900004A | BOARD ASSEMBLY,STAND 50PC1DR-UA PA61A                                     |
|     | 3501900004D | BOARD ASSEMBLY,STAND 50PC1DRA-UA PA61A SKD                                |
|     | 3501900004B | BOARD ASSEMBLY,STAND 50PC1DR-UA PA61A SKD                                 |
| 431 | 35509K0101A | COVER,50PC1R-TA CABLE NON   |
| 501 | 3301900089B | PLATE ASSEMBLY,AV 3300V00615 CORTEZ-PRESS                                 |
| 502 | 3301900092H | PLATE ASSEMBLY,DIGITAL COVER ASSY (PA61A)(50INCH)                         |
| 520 | 68719MM701A | PCB ASSEMBLY,MAIN PA61A 50PC1DRA-UA DIGITAL MANUAL EVERESR2               |
| 530 | 68719SMK88A | PCB ASSEMBLY,SUB PA61A 50PC1DRA-UA AUSLLAX ANALOG B/D MANUAL INSERT       |
| 550 | 6744B00040A | HDD,3.5 ST3160023AS SEAGATE 160GB SATA INNER DT ALL                       |
| 551 | 4980900138C | SUPPORTER ASSY,SECC(EGI) HDD 50PCIDRA PRESS                               |
| 552 | 31419SN902A | CHASSIS ASSEMBLY,SUB PA61A HDD ASSY                                       |
|     | 31419SN902B | CHASSIS ASSEMBLY,SUB PA61A HDD ASSY SKD                                   |
| 560 | 68719SMJ48A | PCB ASSEMBLY,SUB PA61A 50PC1DRA-UA HAND CTRL KEY                          |
|     | 68719SF990A | PCB ASSEMBLY,SUB PA61A 50PC1DR-UA SUSULLJR CONTROL KEY DMS SKD            |
| 570 | 68719SMJ49A | PCB ASSEMBLY,SUB PA61A 50PC1DRA-UA HAND PRE-AMP                           |
|     | 68719SF900A | PCB ASSEMBLY,SUB PA61A 50PC1DR-UA SUSULLJR PRE AMP DMS SKD                |
| 580 | 6709900020A | POWER SUPPLY ASSEMBLY,50INCH UNIFACIATION PSU PDP LGIT PA61A 530W 50PB2DR |
| 600 | 68719SMJ47A | PCB ASSEMBLY,SUB PA61A 50PC1DRA-UA HAND SIDE AV                           |
| 601 | 4811900021A | BRACKET ASSEMBLY,SIDE AV 42PC3D-UD PA51D NORTH AMERICA                    |
|     | 4811900021E | BRACKET ASSEMBLY,SIDE AV 42PC1RV-ZJ PP61C VCTP,EU                         |
| 602 | 48149V0003B | SHIELD,SIDE AV 50PC1R   |

## REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

|                          |                       |
|--------------------------|-----------------------|
| CC, CX, CK, CN : Ceramic | RD : Carbon Film      |
| CQ : Polyester           | RS : Metal Oxide Film |
| CE : Electrolytic        | RN : Metal Film       |
|                          | RF : Fusible          |

RUN DATE : 2006.1.18

| LOCA. NO  | PART NO     | DESCRIPTION                              | LOCA. NO | PART NO     | DESCRIPTION                          |
|-----------|-------------|--|----------|-------------|--------------------------------------|
| <b>IC</b> |             |  |          |             |                                      |
| IC100     | 0IPRPBM001B | PPC405GPR-3JB266C 456 BALL,35MM          | IC302    | 0IMCRSJ001A | SC1565IST-1.8 SEMTECH 3P SOT223      |
| IC1000    | 0ICB533100A | CS5331A-KSR 8SOIC TP ADC -               | IC302    | 0IKE702900G | KIA7029AF SOT-89 TP 2.9V             |
| IC1001    | 0ISTL00029A | MC33078DR2G 8P                           | IC303    | 0IMCRFA010A | KA7809R, FAIRCHILD 2P                |
| IC1002    | 0IMCR02015A | SII3512ECTU128 128P                      | IC303    | 0IMCRFA013A | 74LCX244MTC FAIRCHILD 20P            |
| IC1003    | 0IPMGKE032A | KIA78R09F 5PIN DPAK R/TP 1A,9V           | IC304    | 0IPRP00009A | ICL3232CBNZ INTERSIL 16P             |
| IC1006    | 0ICB841500B | CS8415A-CZR 28P 96KHZ DIGITAL AUDIO      | IC304    | 0IMCRRH001A | BA033FP-E2 ROHM 3P-SOP,TO252-3       |
| IC1007    | 0IPMG00049A | AZ1117H-1.8TRE1(EH13A),LF BCD SOT-223 3P | IC305    | 0IPRP00687B | EPM570F256C5N ALTERA 256P            |
| IC101     | 0ISO206900A | CXA2069Q QFP64 BK I2C BUS AV S/W         | IC306    | 0ISTLPH026A | 74LVC14APW PHILIPS 14PIN             |
| IC101     | 0IPMG00049A | AZ1117H-1.8TRE1(EH13A) SOT-223 3P        | IC401    | 0ILNR00015A | NSP-2100A,LF NEOFIDELITY TQFP 64P    |
| IC1100    | 0IMCRMT003A | MM1108XFFE 8P                            | IC401    | 0IPMG78403A | AZ1086S-1.8TRE1 BCD 3PIN TO-263      |
| IC1101    | 0ISTL00024A | MC14053BDR2G 16P                         | IC402    | 0ICTMLG009E | LGDT1102F HD2.4 LG IC 432P           |
| IC1102    | 0IPMGNS026A | LM311MX 8P                               | IC403    | 0IMCRTI028C | TAS5122DCARG4 56P                    |
| IC1103    | 0IMCRMP006A | PIC18F1220T-I/SO 28P                     | IC403    | 0IPMGA0010A | AZ1117H-3.3 SOT-223 3P R/TP 3.3V 1A  |
| IC1200    | 0ICTMLG017A | LGDT3502B LG IC 208P                     | IC500    | 0IMMR00141A | HY57V641620ETP-6 54PIN               |
| IC1201    | 0IMCRSJ001B | SC1565IST-2.5TR 2.5V 1.5A 3P SOT-223     | IC501    | 0IMMR00141A | HY57V641620ETP-6 54PIN               |
| IC1202    | 0IMCRFA013A | 74LCX244MTC FAIRCHILD 20P                | IC501    | 0IMCRSO025A | CXA2181Q SONY 48P                    |
| IC1204    | 0IPRPML004B | MIC2562A-0YM,LF MICREL 14PIN             | IC502    | 0IMCRAL006A | AT24C16AN-10SU-2.7 8P                |
| IC1205    | 0IPRPML004B | MIC2562A-0YM,LF MICREL 14PIN             | IC502    | 0IMMR00141A | HY57V641620ETP-6 HYNIX 54PIN         |
| IC1300    | 0IPMG78403A | AZ1086S-1.8TRE1 BCD 3PIN TO-263          | IC503    | 0IKE702900G | KIA7029AF SOT-89 TP 2.9V             |
| IC1300    | 0IPMG00049A | AZ1117H-1.8TRE1(EH13A) SOT-223 3P        | IC504    | 0IMRCY002A  | CY2309SXC-1HT CYPRESS SOIC 16P       |
| IC1301    | 0IPMG00049A | AZ1117H-1.8TRE1(EH13A) SOT-223 3P        | IC505    | 0ICTMLG013B | LGDT1901B LG IC SSOP 24P             |
| IC1302    | 0IMCRSH001A | PQ05DZ1U SHARP 5                         | IC505    | 0ISTL00024A | MC14053BDR2G,LF ON SEMI 16P          |
| IC1303    | 0IPRP00538A | FSA1156P6X-NL 6P                         | IC601    | 0IMMRAL014B | AT24C02N-10SI-2.7 ATMEL 8P           |
| IC1304    | 0IPMGON013B | MC34063ADR2G ON SEMI SO-8P               | IC601    | 0IPMGA0010A | AZ1117H-3.3 SOT-223 3P R/TP 3.3V 1A  |
| IC1305    | 0ICTM00006B | LGDT3703D LG SYSTEM IC 128P              | IC602    | 0IPH740800H | 74F08D 14P                           |
| IC1306    | 0ICTM00006C | LGDT3703B 128P                           | IC603    | 0IPRP00696A | MST3361M-LF-110 MSTAR 128P           |
| IC1306    | 0ICTM00006B | LGDT3703D LG SYSTEM IC 128P              | IC604    | 0IMMRCS012B | CAT24WC08W-T(MST3000) 8P             |
| IC1307    | 0IPMGA0010A | AZ1117H-3.3 AAC SOT-223 3P R/TP 3.3V 1A  | IC605    | 0IMMRAL014B | AT24C02N-10SI-2.7 ATMEL 8P           |
| IC1601    | 0IMCRSH001A | PQ05DZ1U SHARP 5                         | IC606    | 0IMMRAL014B | AT24C02N-10SI-2.7 ATMEL 8P           |
| IC1602    | 0IMCRSH001A | PQ05DZ1U SHARP 5                         | IC607    | 0IPRPFA016A | FMS6407MTC20X-NL(PB-FREE) 20P        |
| IC1602    | 0IMCRKE006A | KIA278R05PI KEC TO220IS,4P               | IC609    | 0IMCRSJ001B | SC1565IST-2.5TR 2.5V 1.5A 3P SOT-223 |
| IC1603    | 0IMI623200B | M62320FP,I/O EXPANDER 16P                | IC610    | 0IPRPFA016A | FMS6407MTC20X-NL(PB-FREE) 20P        |
| IC1604    | 0IPRPNS054A | LM75CIMX-3 8P                            | IC701    | 0IPRPNE011B | UPD64015AGM-UEU-A,LF NEC 176P        |
| IC1605    | 0IPMGKE032A | KIA78R09F 5PIN DPAK R/TP 1A,9V           | IC702    | 0IPRPFA015B | FMS6400CS1X,LF FAIRCHILD SOIC 8P     |
| IC1606    | 0IPMGKE032A | KIA78R09F 5PIN DPAK R/TP 1A,9V           | IC703    | 0IMMR00080A | HY57V161610ETP-6 50PIN TSOP2         |
| IC1607    | 0IPMGKE032A | KIA78R09F 5PIN DPAK R/TP 1A,9V           | IC704    | 0IPRPFA015B | FMS6400CS1X 8P                       |
| IC201     | 0IMMRHY038E | HY57V561620CTP-H 54PIN                   | IC705    | 0IPRPNE011B | UPD64015AGM-UEU-A,LF NEC 176P        |
| IC201     | 0IPRP00670A | MSP4458G-C4 MICRONAS 64P                 | IC706    | 0IMMR00080A | HY57V161610ETP-6 50PIN TSOP2         |
| IC202     | 0IMMRHY038E | HY57V561620CTP-H,LF HYNIX 54PIN          | IC707    | 0IPMGA0010A | AZ1117H-3.3 AAC SOT-223 3P           |
| IC202     | 0IMCRMN028C | MSP4450K-QA-D6 MICRONAS 80P              | IC708    | 0IPMG00028A | AZ1117H-1.5TRE1 BCD 3P/SOT-223       |
| IC203     | 0IMRCY002A  | CY2309SXC-1HT CYPRESS SOIC 16P           | IC801    | 0IPMGA0010A | AZ1117H-3.3 AAC SOT-223 3P           |
| IC206     | 0IMCRPH026B | PA9516APW PHILIPS 16P                    | IC802    | 0IPMG78403A | AZ1086S-1.8TRE1 BCD 3PIN TO-263      |
| IC209     | 0IMCRAL021A | AT24C512W-10SU-2.7 8PIN                  | IC802    | 0IPMG00049A | AZ1117H-1.8TRE1(EH13A) SOT-223 3P    |
| IC210     | 0IMRCY002A  | CY2309SXC-1HT CYPRESS SOIC 16P           | IC803    | 0IMCRTH002A | THC63LVD103 64P                      |
| IC301     | 0IPRP00687A | EPM570T144C5N ALTERA 144P                | IC804    | 0ICTMLG018C | LGDP4412, IEP3 LG IC 452P            |
| IC301     | 0IMCRSH001A | PQ05DZ1U SHARP 5                         | IC904    | 0IMCRSJ001B | SC1565IST-2.5TR 2.5V 1.5A 3P SOT-223 |
| IC301     | 0IPRP00687A | PQ05DZ1U SHARP 5                         | IC906    | 0IPMG78403A | AZ1086S-1.8TRE1 BCD 3PIN TO-263      |

## REPLACEMENT PARTS LIST

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| LOCA. NO | PART NO     | DESCRIPTION                       |
|----------|-------------|-----------------------------------|
| IC906    | 0IPMG00049A | AZ1117H-1.8TRE1(EH13A) SOT-223 3P |
| IC907    | 0IPMG78391A | SC2595STR 8PIN SOIC-8L(EDP)       |
| IC908    | 0ICTM00040A | LGDT1304P 432P                    |
| IC909    | 0IMMR00159A | HY5DU57322FP-33 144BALL           |

### TRANSISTOR

|       |             |                                      |
|-------|-------------|--------------------------------------|
| Q101  | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC            |
| Q102  | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC            |
| Q102  | 0TRIH80002A | 2SA1530A-T112-1R SC-59 -60V          |
| Q103  | 0TRIH80002A | 2SA1530A-T112-1R SC-59 -60V          |
| Q105  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q106  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q107  | 0TRIH80002A | 2SA1530A-T112-1R SC-59 -60V -0.15A   |
| Q108  | 0TRIH80002A | 2SA1530A-T112-1R SC-59 -60V -0.15A   |
| Q109  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q110  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q1100 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC            |
| Q1101 | 0TR390609DC | 2N3906S-RTK SOT23 -40V -0.2A         |
| Q1103 | 0TR390609DC | 2N3906S-RTK SOT23 -40V -0.2A         |
| Q112  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q1300 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC            |
| Q1301 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC            |
| Q1302 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC            |
| Q1303 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC            |
| Q1305 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC            |
| Q1306 | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC            |
| Q1309 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC            |
| Q1311 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC            |
| Q1312 | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC            |
| Q1600 | 0TFVI80067A | SI3865BDV(E3) TSOP-6 PB FREE,8V 2.9A |
| Q1602 | 0TFVI80067A | SI3865BDV(E3) TSOP-6 PB FREE,8V 2.9A |
| Q1603 | 0TFVI80067A | SI3865BDV(E3) TSOP-6 PB FREE,8V 2.9A |
| Q201  | 0TRIH80002A | 2SA1530A-T112-1R SC-59 -60V -0.15A   |
| Q202  | 0TRIH80002A | 2SA1530A-T112-1R SC-59 -60V -0.15A   |
| Q203  | 0TRIH80002A | 2SA1530A-T112-1R SC-59 -60V -0.15A   |
| Q204  | 0TRIH80002A | 2SA1530A-T112-1R SC-59 -60V -0.15A   |
| Q205  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q206  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q207  | 0TR102009AM | KRA102S SOT23 -50V -0.1A             |
| Q301  | 0TFVI80067A | SI3865BDV(E3) TSOP-6 PB FREE,8V 2.9A |
| Q303  | 0TFVI80067A | SI3865BDV(E3) TSOP-6 PB FREE,8V 2.9A |
| Q500  | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC            |
| Q501  | 0TRIH80002A | 2SA1530A-T112-1R SC-59 -60V -0.15A   |
| Q501  | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC            |
| Q502  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q503  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q504  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q508  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q509  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q510  | 0TRIY80001A | 2SC3052 50V 200MA                    |
| Q511  | 0TRIY80001A | 2SC3052 50V 200MA                    |

| LOCA. NO | PART NO     | DESCRIPTION                     |
|----------|-------------|---------------------------------|
| Q512     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q513     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q514     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q515     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q516     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q517     | 0TR102009AM | KRA102S SOT23 -50V -0.1A        |
| Q601     | 0TR102009AJ | KRC102S SOT23 50V 0.1A          |
| Q602     | 0TR102009AJ | KRC102S SOT23 50V 0.1A          |
| Q603     | 0TR830009BA | BSS83                           |
| Q604     | 0TR830009BA | BSS83                           |
| Q605     | 0TR830009BA | BSS83                           |
| Q605     | 0TR102009AJ | KRC102S SOT23 50V 0.1A          |
| Q606     | 0TR830009BA | BSS83                           |
| Q606     | 0TR830009BA | BSS83                           |
| Q607     | 0TR830009BA | BSS83                           |
| Q608     | 0TR830009BA | BSS83                           |
| Q609     | 0TR830009BA | BSS83                           |
| Q610     | 0TR102009AJ | KRC102S SOT23 50V 0.1A          |
| Q611     | 0TR102009AJ | KRC102S SOT23 50V 0.1A          |
| Q612     | 0TRIH80003A | RT1N141C-T112-1 SC-59 50V 100MA |
| Q613     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q614     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q615     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q616     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q617     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q618     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q619     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q620     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q621     | 0TRIY80001A | 2SC3052 50V 200MA               |
| Q701     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC       |
| Q702     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC       |
| Q703     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC       |
| Q704     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC       |
| Q705     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC       |
| Q706     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC       |
| Q707     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC       |
| Q708     | 0TR150400BA | CHIP 2SA1504S(ASY) BK KEC       |
| Q801     | 0TR387500AA | CHIP 2SC3875S(ALY) BK KEC       |
| DIODE    |             |                                 |
| D1000    | 0DL233309AC | LED,SAM2333                     |
| D101     | 0DSIH00028A | MC2838-T112-1 SC-59 75V 4A 0.3A |
| D102     | 0DSIH00028A | MC2838-T112-1 SC-59 75V 4A 0.3A |
| D1300    | 0DD184009AA | KDS184 TP KEC - 85V - 300MA     |
| D1300    | 0DS113379BA | 1SS133 T-72 DO34 90V            |
| D1301    | 0DL233309AC | LED,SAM2333                     |
| D1303    | 0DL233309AC | LED,SAM2333                     |
| D1601    | 0DL233309AC | LED,SAM2333                     |
| D1602    | 0DL233309AC | LED,SAM2333                     |
| D1603    | 0DL233309AC | LED,SAM2333                     |
| D1604    | 0DL233309AC | LED,SAM2333                     |

## REPLACEMENT PARTS LIST

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| LOCA. NO         | PART NO     | DESCRIPTION                           | LOCA. NO | PART NO     | DESCRIPTION                     |
|------------------|-------------|---------------------------------------|----------|-------------|---------------------------------|
| D300             | 0DL233309AC | LED,SAM2333                           | C102     | 0CC330CK41A | 33PF 1608 50V 5% R/TP NP0       |
| D301             | 0DL233309AC | LED,SAM2333                           | C1020    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| D302             | 0DRSE00038A | SDC15 TVS SOT23 12.8V                 | C1022    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| D303             | 0DRSE00038A | SDC15 TVS SOT23 12.8V                 | C103     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0      |
| D501             | 0DSIH00028A | MC2838-T112-1 SC-59 75V 4A 0.3A       | C103     | 0CE4763F618 | 47UF SRE,SE 16V 20% FL TP 5     |
| D600             | 0DRSE00048A | RLCAMP0504M 10L,3P,5V -A 12A          | C1031    | 0CE106WFKDC | 10UF MVK 16V 20%, -20%          |
| D601             | 0DD184009AA | KDS184 TP KEC - 85V - 300MA           | C1032    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| D602             | 0DD184009AA | KDS184 TP KEC - 85V - 300MA           | C1034    | 0CC270CK41A | 27PF 1608 50V 5% R/TP NP0       |
| D603             | 0DRSE00048A | RLCAMP0504M 10L,3P,5V -A 12A          | C1035    | 0CC270CK41A | 27PF 1608 50V 5% R/TP NP0       |
| D604             | 0DRSE00048A | RLCAMP0504M 10L,3P,5V -A 12A          | C1036    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| D605             | 0DRSE00048A | RLCAMP0504M 10L,3P,5V -A 12A          | C1037    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| LD101            | 0DLAU0410AA | LED,AUK SAW5670                       | C1038    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| ZD101            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C1039    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| ZD102            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C104     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0      |
| ZD107            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C104     | 0CE4763F618 | 47UF SRE,SE 16V 20% FL TP 5     |
| ZD108            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C1044    | 0CK472CK56A | 4700PF 1608 50V 10% R/TP X7R    |
| ZD109            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C1045    | 0CE106WFKDC | 10UF MVK 16V 20%, -20%          |
| ZD201            | 0DZRM00248A | ZENERS,RLZ8.2B-TE11                   | C1046    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| ZD202            | 0DZRM00248A | ZENERS,RLZ8.2B-TE11                   | C105     | 0CE4763F618 | 47UF SRE,SE 16V 20% FL TP 5     |
| ZD601            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C105     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD  |
| ZD602            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C1051    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| ZD603            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C1053    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| ZD604            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C1056    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| ZD605            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C1057    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| ZD606            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C1058    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| ZD618            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C1059    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| ZD619            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C106     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD  |
| ZD620            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C107     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| ZD621            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C108     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| ZD622            | 0DZ560009DA | ZENERS,UDZ S 5.6B                     | C109     | 0CE225WK6DC | 2.2UF MVK,RC 50V 20%            |
| <b>CAPACITOR</b> |             |                                       | C110     | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD   |
| C100             | 0CE106WFKDC | 10UF MVK 16V 20%, -20%                | C1100    | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD  |
| C1000            | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          | C1102    | 0CK392CK56A | 3900PF 1608 50V 10% R/TP X7R    |
| C1001            | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        | C1104    | 0CC561CK41A | 560PF 1608 50V 5% NP0 R/TP      |
| C1002            | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        | C1105    | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD   |
| C1003            | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0             | C1106    | 0CC561CK41A | 560PF 1608 50V 5% NP0 R/TP      |
| C1005            | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD       | C1107    | 0CE475WJ6DC | 4.7UF MVK 35V 20% R/TP(SMD) SMD |
| C1006            | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C1108    | 0CC471CK41A | 4700PF 1608 50V 5% R/TP NP0     |
| C101             | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C1109    | 0CK271CK46A | 270PF 1608 50V 5% X7R R/TP      |
| C101             | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0            | C111     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0      |
| C101             | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD         | C1110    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1012            | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD       | C1111    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1013            | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0             | C1112    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1014            | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        | C1113    | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R    |
| C1015            | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        | C1115    | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20%            |
| C1017            | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          | C1117    | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0       |
| C1017            | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          | C1118    | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0       |
| C102             | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C112     | 0CE225WK6DC | 2.2UF MVK,RC 50V 20%            |
| C102             | 0CK474CH94A | 0.47UF 1608 25V 80%, -20% R/TP F(Y5V) | C113     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0      |
| C102             | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C114     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
|                  |             |                                       | C115     | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD   |

## REPLACEMENT PARTS LIST

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| LOCA. NO | PART NO     | DESCRIPTION                          | LOCA. NO | PART NO     | DESCRIPTION                     |
|----------|-------------|--------------------------------------|----------|-------------|---------------------------------|
| C116     | OCE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD      | C1322    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C116     | OCE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD      | C1324    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C117     | OCE227WF6DC | 220UF MVK 16V 20% R/TP(SMD) SMD      | C1325    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C117     | OCE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD      | C1326    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C118     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0           | C1329    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C119     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0           | C133     | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0      |
| C120     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) | C1330    | 0CK271CK46A | 270PF 1608 50V 5% X7R R/TP      |
| C1200    | 0CC200CK41A | 20PF 1608 50V 5% R/TP NP0            | C1330    | 0CK271CK46A | 270PF 1608 50V 5% X7R R/TP      |
| C1204    | 0CC200CK41A | 20PF 1608 50V 5% R/TP NP0            | C1331    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1209    | OCE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C1332    | 0CE106WFKDC | 10UF MVK 16V 20%,,-20%          |
| C121     | OCE225WK6DC | 2.2UF MVK,RC 50V 20%                 | C1334    | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20%            |
| C1213    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C1334    | 0CE476WK6DC | 47UF MVK 50V 20% R/TP(SMD) SMD  |
| C1216    | OCE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C134     | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0      |
| C1217    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C1341    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C1218    | OCE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C1342    | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C122     | OCE225WK6DC | 2.2UF MVK,RC 50V 20%                 | C1345    | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C1223    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C1346    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C123     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C1348    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C123     | OCE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C1349    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C1231    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP         | C135     | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0      |
| C1232    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C1352    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1234    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP         | C1354    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C1235    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP         | C1355    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C1236    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C1356    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C1237    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C1357    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C1238    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP         | C1358    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C1238    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP         | C1359    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C124     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C1360    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C124     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0           | C1361    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C125     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0           | C1362    | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R    |
| C126     | OCE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD        | C1362    | 0CC050CK11A | 5PF 1608 50V 0.5 PF R/TP NP0    |
| C126     | OCE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C1363    | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R    |
| C127     | OCE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD        | C1363    | 0CC050CK11A | 5PF 1608 50V 0.5 PF R/TP NP0    |
| C1301    | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0            | C1370    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1302    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C1386    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1304    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C1387    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1306    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C1389    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP    |
| C1307    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP         | C1390    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP    |
| C1308    | OCE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C1391    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1309    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP         | C1392    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP    |
| C1310    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C1393    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP    |
| C1311    | 0CK105DF64A | 1UF 2012 16V 20% F(Y5V) R/TP         | C1395    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1312    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C1396    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C1313    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C1604    | 0CE337WJ6D8 | 330UF MVK,RC 35V 20%            |
| C1314    | 0CC200CK41A | 20PF 1608 50V 5% R/TP NP0            | C1605    | 0CE337WJ6D8 | 330UF MVK,RC 35V 20%            |
| C1315    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C1607    | 0CE477WF6DC | 470UF MVK 16V 20%               |
| C1316    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C1607    | 0CE337WJ6D8 | 330UF MVK,RC 35V 20%            |
| C1317    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C1608    | 0CE477WF6DC | 470UF MVK 16V 20%               |
| C1319    | 0CC200CK41A | 20PF 1608 50V 5% R/TP NP0            | C1608    | 0CE337WJ6D8 | 330UF MVK,RC 35V 20%            |
| C132     | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0           | C1613    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C1320    | OCE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD      | C1616    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |

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## REPLACEMENT PARTS LIST

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| LOCA. NO | PART NO     | DESCRIPTION                           | LOCA. NO | PART NO     | DESCRIPTION                           |
|----------|-------------|---------------------------------------|----------|-------------|---------------------------------------|
| C1617    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C230     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          |
| C1618    | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R          | C230     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        |
| C1619    | 0CE107WF6DC | 1000UF MVK 16V 20% R/TP(SMD) SMD      | C231     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0            |
| C1621    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C232     | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0             |
| C1622    | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD       | C232     | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20%                  |
| C1623    | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD         | C233     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           |
| C1625    | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R          | C234     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD       |
| C1626    | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R          | C235     | 0CE106WFKDC | 10UF MVK 16V 20%,,-20%                |
| C1627    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD        | C236     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           |
| C1628    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C237     | 0CE106WFKDC | 10UF MVK 16V 20%,,-20%                |
| C1630    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD        | C238     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        |
| C1632    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD        | C239     | 0CC020CK01A | 2PF 1608 50V 0.25 PF R/TP NP0         |
| C1636    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD        | C240     | 0CC020CK01A | 2PF 1608 50V 0.25 PF R/TP NP0         |
| C1641    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD        | C241     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           |
| C200     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C242     | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0             |
| C201     | 0CC020CK01A | 2PF 1608 50V 0.25 PF R/TP NP0         | C243     | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0             |
| C202     | 0CC020CK01A | 2PF 1608 50V 0.25 PF R/TP NP0         | C244     | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0             |
| C203     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        | C245     | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20%                  |
| C204     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C246     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          |
| C205     | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0             | C247     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        |
| C206     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C248     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) |
| C206     | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0             | C249     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          |
| C207     | 0CC560CK41A | 56PF 1608 50V 5% R/TP NP0             | C250     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) |
| C208     | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20%                  | C251     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          |
| C209     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          | C252     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           |
| C210     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) | C253     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          |
| C211     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          | C254     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          |
| C211     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C255     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          |
| C212     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) | C256     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          |
| C213     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          | C257     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0            |
| C214     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) | C258     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          |
| C215     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          | C259     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          |
| C216     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) | C260     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          |
| C216     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        | C261     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          |
| C217     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          | C262     | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0            |
| C217     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C263     | 0CE335WK6D8 | 3.3UF MVK,RC 50V 20%                  |
| C218     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) | C264     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           |
| C218     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C265     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD       |
| C219     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          | C266     | 0CE106WFKDC | 10UF MVK 16V 20%,,-20%                |
| C220     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        | C267     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) |
| C221     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) | C268     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) |
| C222     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          | C269     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) |
| C223     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C270     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) |
| C223     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C271     | 0CE106WFKDC | 10UF MVK 16V 20%,,-20%                |
| C224     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) | C272     | 0CE475WK6DC | 4.7UF MVK,RC 50V 20%                  |
| C225     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          | C273     | 0CE475WK6DC | 4.7UF MVK,RC 50V 20%                  |
| C226     | 0CK474CH94A | 0.47UF 1608 25V 80%,,-20% R/TP F(Y5V) | C274     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           |
| C227     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          | C3000    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           |
| C228     | 0CK222CK56A | 2200PF 1608 50V 10% R/TP X7R          | C3001    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           |
| C229     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C3002    | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0             |
| C229     | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0            | C3003    | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0             |

## REPLACEMENT PARTS LIST

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| LOCA. NO | PART NO     | DESCRIPTION                           | LOCA. NO | PART NO     | DESCRIPTION                     |
|----------|-------------|---------------------------------------|----------|-------------|---------------------------------|
| C3005    | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0             | C327     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C301     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C328     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C302     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD        | C328     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C303     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C329     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C3039    | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        | C330     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C304     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C331     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C304     | 0CE106WFKDC | 10UF MVK 16V 20%, -20%                | C332     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C3041    | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD        | C332     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C3044    | 0CC100CK41A | 10PF 1608 50V 5% R/TP NP0             | C333     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C3045    | 0CC100CK41A | 10PF 1608 50V 5% R/TP NP0             | C335     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C3046    | 0CC100CK41A | 10PF 1608 50V 5% R/TP NP0             | C337     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C3047    | 0CC100CK41A | 10PF 1608 50V 5% R/TP NP0             | C338     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C305     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD        | C339     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C306     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C340     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C307     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C341     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C3070    | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R          | C342     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C3070    | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R          | C343     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C3070    | 0CC050CK11A | 5PF 1608 50V 0.5 PF R/TP NP0          | C344     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C3071    | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R          | C345     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C3071    | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R          | C346     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C3071    | 0CC050CK11A | 5PF 1608 50V 0.5 PF R/TP NP0          | C347     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C3074    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          | C348     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C3075    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C348     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0      |
| C3076    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C349     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C3077    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD        | C349     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C3078    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD        | C350     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C3079    | 0CK226FF67A | 22UF 3225 16V 20% X5R R/TP            | C350     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C308     | 0CE106WFKDC | 10UF MVK 16V 20%, -20%                | C351     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C3080    | 0CK226FF67A | 22UF 3225 16V 20% X5R R/TP            | C351     | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0       |
| C3081    | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R          | C352     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C309     | 0CE686SJ6D8 | 68UF MVG, MC, VC 35V 20%              | C352     | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0       |
| C311     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD       | C353     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C312     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C354     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C312     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C355     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C313     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD       | C356     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C314     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD       | C357     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C315     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C358     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C316     | 0CK334CF94A | 0.33UF 1608 16V 80%, -20% F(Y5V) R/TP | C359     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C316     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C360     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C317     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C361     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C317     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C362     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0     |
| C319     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD       | C363     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |
| C320     | 0CE686SJ6D8 | 68UF MVG, MC, VC 35V 20%              | C364     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C321     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD       | C366     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C322     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C367     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C322     | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R         | C368     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C323     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0           | C369     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C325     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C370     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C326     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R           | C371     | 0CE686SJ6D8 | 68UF MVG, MC, VC 35V 20%        |
| C326     | 0CC221CK41A | 220PF 1608 50V 5% R/TP NP0            | C372     | 0CE686SJ6D8 | 68UF MVG, MC, VC 35V 20%        |
| C327     | 0CC221CK41A | 220PF 1608 50V 5% R/TP NP0            | C373     | 0CE227SF6DC | 220UF MVG 16V 20% R/TP(SMD) SMD |

## REPLACEMENT PARTS LIST

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| LOCA. NO | PART NO     | DESCRIPTION                       | LOCA. NO | PART NO     | DESCRIPTION                          |
|----------|-------------|-----------------------------------|----------|-------------|--------------------------------------|
| C401     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C465     | 0CK474EK66A | 0.47UF 3216 50V 20% X7R R/TP         |
| C401     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD    | C465     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C402     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C466     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C403     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C467     | 0CK474EK66A | 0.47UF 3216 50V 20% X7R R/TP         |
| C404     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C467     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C404     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD    | C468     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C405     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD    | C468     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C406     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0       | C469     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C407     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0        | C470     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C408     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD    | C470     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C409     | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) | C471     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C410     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C472     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C411     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C473     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C412     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD    | C473     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C413     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C474     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C414     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C474     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C415     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD    | C475     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C416     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C476     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C417     | 0CC102CK41A | 1000PF 1608 50V 5% R/TP NP0       | C477     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C418     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C479     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C419     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C480     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C421     | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) | C481     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       |
| C422     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C482     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       |
| C423     | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V) | C501     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       |
| C426     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C502     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          |
| C428     | 0CE106SK6DC | 10UF MVG 50V 20% SMD R/TP         | C503     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C429     | 0CE106SK6DC | 10UF MVG 50V 20% SMD R/TP         | C504     | 0CK472CK56A | 4700PF 1608 50V 10% R/TP X7R         |
| C431     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C504     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          |
| C434     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C505     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C436     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R      | C506     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C438     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C507     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C439     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R      | C508     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C444     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C508     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          |
| C445     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C509     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         |
| C446     | 0CK333CK56A | 33000PF 1608 50V 10% R/TP X7R     | C509     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          |
| C447     | 0CK333CK56A | 33000PF 1608 50V 10% R/TP X7R     | C510     | 0CK105CF94A | 1UF 1608 16V 80%,-20% R/TP F(Y5V)    |
| C448     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C511     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          |
| C449     | 0CK333CK56A | 33000PF 1608 50V 10% R/TP X7R     | C511     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          |
| C450     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R       | C512     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       |
| C451     | 0CK333CK56A | 33000PF 1608 50V 10% R/TP X7R     | C513     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C452     | 0CE337WJ6D8 | 330UF MVK,RC 35V 20%              | C514     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          |
| C453     | 0CE337WJ6D8 | 330UF MVK,RC 35V 20%              | C515     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0           |
| C454     | 0CE337WJ6D8 | 330UF MVK,RC 35V 20%              | C516     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C455     | 0CE337WJ6D8 | 330UF MVK,RC 35V 20%              | C517     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C460     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R      | C517     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          |
| C461     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R      | C518     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C461     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD    | C518     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          |
| C462     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R      | C519     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C463     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R      | C520     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |
| C463     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD    | C521     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          |
| C464     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R      | C522     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) |

## REPLACEMENT PARTS LIST

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| LOCA. NO | PART NO     | DESCRIPTION                          | LOCA. NO | PART NO     | DESCRIPTION                    |
|----------|-------------|--------------------------------------|----------|-------------|--------------------------------|
| C522     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C623     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C523     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) | C624     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C524     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) | C625     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C525     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) | C626     | 0CE476WH6DC | 47UF MVK 25V 20%               |
| C526     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) | C627     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C526     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C627     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C527     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C628     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C528     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C629     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C528     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C629     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C529     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C630     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C529     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C631     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C530     | 0CK104CF56A | 0.1UF 1608 16V 10% R/TP X7R          | C631     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C530     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C632     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C531     | 0CK104CF56A | 0.1UF 1608 16V 10% R/TP X7R          | C632     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C531     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD       | C633     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C532     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C633     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C532     | 0CE105WK6DC | 1UF MVK 50V 20% R/TP(SMD) SMD        | C634     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C533     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C634     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C534     | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0            | C635     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C534     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD       | C635     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C535     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C636     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C535     | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0            | C636     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C536     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C637     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C537     | 0CK104CF56A | 0.1UF 1608 16V 10% R/TP X7R          | C637     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C537     | 0CC100CK41A | 10PF 1608 50V 5% R/TP NP0            | C638     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C538     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C639     | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R   |
| C538     | 0CC270CK41A | 27PF 1608 50V 5% R/TP NP0            | C639     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C539     | 0CK104CF56A | 0.1UF 1608 16V 10% R/TP X7R          | C640     | 0CC470CK41A | 47PF 1608 50V 5% R/TP NP0      |
| C540     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD      | C644     | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R  |
| C541     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C645     | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R  |
| C542     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C646     | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R   |
| C543     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C647     | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R  |
| C544     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C648     | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R  |
| C601     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C649     | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R  |
| C601     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C650     | 0CK473CH56A | 0.047UF 1608 25V 10% R/TP X7R  |
| C602     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C650     | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0     |
| C603     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0           | C651     | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0      |
| C604     | 0CC101CK41A | 100PF 1608 50V 5% R/TP NP0           | C652     | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0      |
| C607     | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0            | C653     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C608     | 0CC220CK41A | 22PF 1608 50V 5% R/TP NP0            | C654     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C608     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C655     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |
| C611     | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0           | C656     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C612     | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0           | C657     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R   |
| C613     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C658     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R   |
| C614     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) | C659     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C615     | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) | C666     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C616     | 0CC471CK41A | 470PF 1608 50V 5% R/TP NP0           | C667     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C617     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C668     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD |
| C619     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C672     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C621     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C7001    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R    |
| C623     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C7002    | 0CE106WFKDC | 10UF MVK 16V 20%,-20%          |

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## REPLACEMENT PARTS LIST

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| LOCA. NO | PART NO     | DESCRIPTION                          | LOCA. NO | PART NO     | DESCRIPTION                     |
|----------|-------------|--------------------------------------|----------|-------------|---------------------------------|
| C7003    | 0CK474CH94A | 0.47UF 1608 25V 80%,-20% R/TP F(Y5V) | C813     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%           |
| C7005    | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD       | C815     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C7006    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C817     | 0CK102CK56A | 1000PF 1608 50V 0.1 R/TP X7R    |
| C7007    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C822     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%           |
| C702     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD       | C828     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C7028    | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0            | C838     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C7029    | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0            | C840     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C703     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD       | C842     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C7043    | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD      | C844     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C7046    | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD      | C9006    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C7048    | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD      | C901     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C7049    | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD      | C9015    | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C7052    | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD      | C9016    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C7053    | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD      | C9017    | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C7054    | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD      | C902     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C708     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C903     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C709     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C904     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C711     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C905     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C718     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C906     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C719     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C907     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C720     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C908     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C725     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C909     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C729     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C910     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C730     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C911     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C731     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C912     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C732     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C913     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C733     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C914     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C734     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C915     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C735     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C916     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%           |
| C737     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD       | C917     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C758     | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0            | C918     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%           |
| C759     | 0CC180CK41A | 18PF 1608 50V 5% R/TP NP0            | C919     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C773     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD       | C920     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C774     | 0CE226WF6DC | 22UF MVK 16V 20% R/TP(SMD) SMD       | C929     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C779     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C931     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C780     | 0CE106WFKDC | 10UF MVK 16V 20%,-20%                | C932     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C781     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C933     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C784     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C934     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C789     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R         | C935     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C794     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C936     | 0CE477WF6DC | 470UF MVK 16V 20%               |
| C797     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C936     | 0CE337WJ6D8 | 330UF MVK,RC 35V 20%            |
| C798     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C937     | 0CE107WF6DC | 100UF MVK 16V 20% R/TP(SMD) SMD |
| C799     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C938     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C801     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C940     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C802     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C941     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C803     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C942     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |
| C804     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C943     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R     |
| C806     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C944     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD  |
| C807     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C945     | 0CE477WF6DC | 470UF MVK 16V 20%               |
| C808     | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R          | C945     | 0CE337WJ6D8 | 330UF MVK,RC 35V 20%            |
| C810     | 0CE476WF6DC | 47UF MVK 16V 20% R/TP(SMD) SMD       | C946     | 0CK103CK56A | 0.01UF 1608 50V 10% R/TP X7R    |

## REPLACEMENT PARTS LIST

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| LOCA. NO         | PART NO     | DESCRIPTION                        | LOCA. NO        | PART NO     | DESCRIPTION                         |
|------------------|-------------|------------------------------------|-----------------|-------------|-------------------------------------|
| C957             | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R        | C16             | 6631900100C | CONNECTOR ASSEMBLY,4P 2.5MM 1200MM  |
| C960             | 0CK104CK56A | 0.1UF 1608 50V 10% R/TP X7R        | C17             | 6631900101D | CONNECTOR ASSEMBLY,10P 2.0MM 400MM  |
| R1334            | 0CE335SK6DC | 3.3UF MVG 50V 20% SMD R/TP         | C18             | 6631900104A | CONNECTOR ASSEMBLY,12P 2.0MM 400MM  |
| <b>COIL</b>      |             |                                    |                 |             |                                     |
| L1601            | 6140VB0004B | COIL,CHOKE 26UH                    | C19             | 6631V10004A | CONNECTOR ASSEMBLY,31P 1.0MM 80MM   |
| L1602            | 6140VB0004B | COIL,CHOKE 26UH                    | C20             | 6631V10004Z | CONNECTOR ASSEMBLY,31P 1.0MM 50MM   |
| L302             | 6140VB0004B | COIL,CHOKE 26UH                    | C21             | 6631V25032G | CONNECTOR ASSEMBLY,3P 2.5MM 400MM   |
| L303             | 6140VB0004B | COIL,CHOKE 26UH                    | C22             | 6631V39015E | CONNECTOR ASSEMBLY,4P 3.96MM 300MM  |
| L304             | 6140VB0004B | COIL,CHOKE 26UH                    | C23             | 6631V39016E | CONNECTOR ASSEMBLY,10P 3.96MM 300MM |
| L306             | 6140VB0004B | COIL,CHOKE 26UH                    | C7              | 6631900105C | CONNECTOR ASSEMBLY,12P 2.0MM 700MM  |
| L408             | 61409B0008A | COIL,CHOKE DBF-1310S 10UH 15%      | C8              | 6631T20033J | CONNECTOR ASSEMBLY,4P-4P H-H 300MM  |
| L409             | 61409B0008A | COIL,CHOKE DBF-1310S 10UH 15%      | C9              | 6631900106C | CONNECTOR ASSEMBLY,10P 2.0MM 900MM  |
| L410             | 61409B0008A | COIL,CHOKE DBF-1310S 10UH 15%      | CN300           | 6630G70017A | CONNECTOR,D-SUB A02-0915-101        |
| L411             | 61409B0008A | COIL,CHOKE DBF-1310S 10UH 15%      | J601            | 6630G70016A | CONNECTOR,D-SUB A03-7071-094        |
| <b>WAFER</b>     |             |                                    |                 |             |                                     |
| C24              | 366-036B    | CONNECTOR,WAFER STAPLE             | P1000           | 6630U60039A | CONNECTOR,TERMINAL 184-0207100-71   |
| P100             | 6602T20009C | CONNECTOR,WAFER SMAW200-04         | P101            | 6630X60151A | CONNECTOR,FFC/FPC 10008HR-31L       |
| P100             | 6602T20009J | CONNECTOR,WAFER SMAW200-10         | P102            | 6630X60151A | CONNECTOR,FFC/FPC 10008HR-31L       |
| P100             | 6602T20009L | CONNECTOR,WAFER SMAW200-12         | P103            | 6630X60151A | CONNECTOR,FFC/FPC 10008HR-31L       |
| P100             | 6630V90142A | CONNECTOR,WAFER TPH254-R-1419-6A   | P1613           | 6630CE00168 | CONNECTOR,CARD BUS 10003526-150CALF |
| P101             | 6602T20009C | CONNECTOR,WAFER SMAW200-04         | <b>JACK</b>     |             |                                     |
| P104             | 6602T20009L | CONNECTOR,WAFER SMAW200-12         | J100            | 6612J10033A | JACK,RCA PMJ016-13 3P               |
| P1100            | 366-921D    | WAFER,IL-G-05 LGC 2.5MM S/T        | J101            | 6612J00062N | JACK,RCA PMJ030-02 6P               |
| P1101            | 366-921D    | WAFER,IL-G-05 LGC 2.5MM S/T        | J601            | 6612B00015B | JACK,DIN DC1R019WDH JAE 0.5MM       |
| P1200            | 6630VE01269 | CONNECTOR,WAFER 91932-31169LF      | J602            | 6612B00015B | JACK,DIN DC1R019WDH JAE 0.5MM       |
| P1601            | 6602Q39005A | CONNECTOR,WAFER 3.96MM 4PIN        | J602            | 6612J10031A | JACK,RCA PPJ209-02 PARK 5P          |
| P1603            | 6602T25008L | CONNECTOR,WAFER SMW250-12          | J603            | 6612J10031A | JACK,RCA PPJ209-02 PARK 5P          |
| P1604            | 6602T25008M | WAFER,SMW250-13                    | J604            | 6612F00099A | JACK,PHONE PEJ024-01 PARK 7P        |
| P1605            | 366-932E    | CONNECTOR,WAFER 6PIN 2.54MM        | J605            | 6612F00099A | JACK,PHONE PEJ024-01 PARK 7P        |
| P1606            | 366-932B    | CONNECTOR,WAFER IL-G-03P           | JK100           | 6612BBBHN4D | JACK,DIN TOTX177                    |
| P1609            | 366-932B    | CONNECTOR,WAFER IL-G-03P           | <b>RESISTOR</b> |             |                                     |
| P1610            | 6630VE00731 | CONNECTOR,WAFER 10022HS-31A02      | AR1300          | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| P1611            | 6630VE00731 | CONNECTOR,WAFER 10022HS-31A02      | AR1302          | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| P1612            | 6630VE00731 | CONNECTOR,WAFER 10022HS-31A02      | AR1304          | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| P300             | 366-932E    | CONNECTOR,WAFER 6PIN 2.54MM        | AR400           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| P301             | 6602T25009J | WAFER,SMAW250-10                   | AR401           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| P403             | 6602T25009C | WAFER,SMAW250-04                   | AR402           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| P404             | 6602T25009B | CONNECTOR,WAFER SMAW250-03         | AR403           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| P602             | 6602T20009J | CONNECTOR,WAFER SMAW200-10         | AR404           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| P605             | 6602T20009J | CONNECTOR,WAFER SMAW200-10         | AR405           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| P801             | 6602T12007D | CONNECTOR,WAFER GT121-31P-TD       | AR406           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| <b>CONNECTOR</b> |             |                                    | AR407           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| C10              | 6631900097D | CONNECTOR ASSEMBLY,3P 2.5MM 350MM  | AR408           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| C11              | 6631900098D | CONNECTOR ASSEMBLY,4P 2.5MM 350MM  | AR601           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| C12              | 6631900012J | CONNECTOR ASSEMBLY,10P 2.5MM 500MM | AR602           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| C13              | 6631900027G | CONNECTOR ASSEMBLY,13P 2.5MM 400MM | AR603           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| C14              | 6631900065C | CONNECTOR ASSEMBLY,12P 2.5MM 350MM | AR604           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
| C15              | 6631900099B | CONNECTOR ASSEMBLY,3P 2.5MM 500MM  | AR605           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
|                  |             |                                    | AR606           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
|                  |             |                                    | AR607           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |
|                  |             |                                    | AR608           | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%             |

## REPLACEMENT PARTS LIST

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| LOCA. NO                    | PART NO     | DESCRIPTION                    | LOCA. NO | PART NO     | DESCRIPTION                    |
|-----------------------------|-------------|--------------------------------|----------|-------------|--------------------------------|
| AR701                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1002    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR702                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1004    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR703                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1100    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR704                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1200    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR708                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1201    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR709                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1300    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR801                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1301    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR802                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1302    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR803                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1303    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR804                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1308    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR805                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1311    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR806                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1312    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR807                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1315    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR808                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1316    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR809                       | 0RRZVTA001D | 22 OHM 1 / 16 W 1608 5%        | L1317    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR900                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L1318    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR901                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L1319    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR902                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L1325    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR903                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L1326    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR904                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L1327    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR905                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L1605    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR906                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L1606    | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR907                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L301     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| AR908                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L301     | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| AR909                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L305     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| AR910                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L308     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| AR919                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L309     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| AR920                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L310     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| AR921                       | 0RHZTCZ001D | RCA SMART 220OHM 1/16 W 5%     | L311     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| R1302                       | ORD0331H609 | 3.3 OHM 1/2 W 5.00% TA52       | L312     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| R1631                       | ORD0272H609 | 27 OHM 1/2 W 5.00% TA52        | L313     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| R505                        | 0RN1002F409 | 10K OHM 1/6 W 1.00% TA52       | L315     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| <b>SWITCH</b>               |             |                                | L316     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| SW101                       | 140-313B    | SWITCH,TACT 2LEAD 160G(TA)     | L401     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| SW102                       | 140-313B    | SWITCH,TACT 2LEAD 160G(TA)     | L402     | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| SW103                       | 140-313B    | SWITCH,TACT 2LEAD 160G(TA)     | L402     | 6200J000013 | FILTER,EMC MLB-201209-0120P-N2 |
| SW104                       | 140-313B    | SWITCH,TACT 2LEAD 160G(TA)     | L403     | 0LCML00003B | FILTER,EMC MLB-321611-0500P-N2 |
| SW105                       | 140-313B    | SWITCH,TACT 2LEAD 160G(TA)     | L403     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| SW106                       | 140-313B    | SWITCH,TACT 2LEAD 160G(TA)     | L404     | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
| SW107                       | 140-313B    | SWITCH,TACT 2LEAD 160G(TA)     | L404     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |
| SW108                       | 140-313B    | SWITCH,TACT 2LEAD 160G(TA)     | L413     | 6210TCE001S | FILTER,EMC HU-1M2012-121       |
| SW300                       | 6600VR1004A | SWITCH,TACT SKHMPW 5P          | L414     | 6210TCE001S | FILTER,EMC HU-1M2012-121       |
| SW301                       | 6600VR1004A | SWITCH,TACT SKHMPW 5P          | L415     | 6210TCE001S | FILTER,EMC HU-1M2012-121       |
| <b>FILTER &amp; CRYSTAL</b> |             |                                | L416     | 6210TCE001S | FILTER,EMC HU-1M2012-121       |
| B116                        | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 | L417     | 6210TCE001S | FILTER,EMC HU-1M2012-121       |
| B200                        | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 | L418     | 6210TCE001S | FILTER,EMC HU-1M2012-121       |
| B201                        | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 | L419     | 6210TCE001S | FILTER,EMC HU-1M2012-121       |
| B202                        | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 | L420     | 6210TCE001S | FILTER,EMC HU-1M2012-121       |
| B203                        | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 | L501     | 0LCML00003B | FILTER,EMC MLB-201209-0120P-N2 |
|                             |             |                                | L503     | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2 |

## REPLACEMENT PARTS LIST

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| LOCA. NO             | PART NO     | DESCRIPTION                            | LOCA. NO           | PART NO     | DESCRIPTION                            |
|----------------------|-------------|--|--------------------|-------------|--|
| L503                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | C4                 | 6851V00022D | CABLE,COAXIAL UL1365#26 VW-1 250MM     |
| L504                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | IC01               | 692791110AF | SOFT WARE,3.01.0V DA81 PDP PA61A       |
| L601                 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2         | IC02               | 692791111AF | SOFT WARE,3.01.0V D375 PDP PA61A       |
| L601                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | IC03               | 692791112AD | SOFT WARE,3.01V 5B75 PDP PA61A         |
| L602                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | IC04               | 692791113AD | SOFT WARE,3.01V 3E0C PDP PA61A         |
| L603                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | IC504              | 692791130AC | SOFT WARE,2.02V 5513 PDP PA62A         |
| L604                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | P1002              | 6871VSMA8A  | PCB ASSEMBLY,SUB A/V OPTIC BD          |
| L605                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | PA101              | 6712000011B | REMOTE CONTROLLER RECEIVER             |
| L606                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | TU1300             | 6700AB0001A | TUNER,TDVM-H751P                       |
| L607                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | TU1302             | 6700NF0024A | TUNER,ENG36A54GF                       |
| L608                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | TU2                | 6634D00016A | ADAPTER,RF TASA-H401F                  |
| L611                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | VR601              | 6102W5V016A | VARISTOR,AVRL161A1R1NT                 |
| L612                 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2         | VR602              | 6102W5V016A | VARISTOR,AVRL161A1R1NT                 |
| L612                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | VR603              | 6102W5V016A | VARISTOR,AVRL161A1R1NT                 |
| L616                 | 6200J000013 | FILTER,EMC MLB-321611-0500P-N2         | VR604              | 6102W5V016A | VARISTOR,AVRL161A1R1NT                 |
| L701                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | X200               | 6204B48360A | OSCILLATOR,SCO-103 33.3300MHZ          |
| L702                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | X3070              | 6204B47985K | OSCILLATOR,BMS-873R 25MHZ              |
| L703                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | X3071              | 6204B47985K | OSCILLATOR,BMS-873R 25MHZ              |
| L704                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | X500               | 6204B62705A | OSCILLATOR,27.0000MHZ                  |
| L705                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | <b>ACCESSORIES</b> |             |  |
| L706                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | A1                 | 38289U0512E | MANUAL,USER PA61A                      |
| L707                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | A2                 | 6710T00017X | REMOTE CONTROLLER                      |
| L801                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | "                  | 6710T00151Z | REMOTE CONTROLLER *LGERS               |
| L802                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | A3                 | 6410VUH005E | POWER CORD,LP-31+LS-13 2800MM          |
| L803                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | A4                 | 6850TD9007E | CABLE,D-SUB UL20276-9C(5.8MM) DT L1800 |
| L804                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | A5                 | 6852TAZ010F | CABLE,COAXIAL NT 1365 AWG 24 L3000MM   |
| L805                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         | A7                 | 4972V00178A | FIXER,WALL NON ASSY                    |
| L806                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         |                    |             |  |
| L807                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         |                    |             |  |
| L900                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         |                    |             |  |
| L901                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         |                    |             |  |
| L902                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         |                    |             |  |
| L903                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         |                    |             |  |
| L904                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         |                    |             |  |
| L905                 | OLCML00003B | FILTER,EMC MLB-201209-0120P-N2         |                    |             |  |
| X1000                | 6212AB2872A | RESONATOR,CRYSTAL HC-49/SM 25.0000MHZ  |                    |             |  |
| X1100                | 6212AB2015E | RESONATOR,CRYSTAL HC-49/SM 10.0MHZ     |                    |             |  |
| X1200                | 6212AC2001D | RESONATOR,CRYSTAL HC-49/SM 14MHZ       |                    |             |  |
| X201                 | 6202VDT002H | RESONATOR,CRYSTAL SX-1 18.432000MHZ    |                    |             |  |
| X202                 | 6202VDT002H | RESONATOR,CRYSTAL SX-1 18.432000MHZ    |                    |             |  |
| X501                 | 6212AB3004D | RESONATOR,CRYSTAL CSALF2M69G4ZF01-A3   |                    |             |  |
| X502                 | 6212AB2015A | RESONATOR,CRYSTAL HC-49/SM4H 4MHZ      |                    |             |  |
| X503                 | 6202TST001E | CRYSTAL SX-1 24MHZ                     |                    |             |  |
| X601                 | 6202TST001A | CRYSTAL SX-1 14.31818MHZ               |                    |             |  |
| X701                 | 6212AB2873A | RESONATOR,CRYSTAL HC-49/SM 24.57600MHZ |                    |             |  |
| X702                 | 6212AB2873A | RESONATOR,CRYSTAL HC-49/SM 24.57600MHZ |                    |             |  |
| <b>MISCELLANEOUS</b> |             |  |                    |             |  |
| C1                   | 6850U00002C | CABLE,USB UL2725 AWG26 200MM           |                    |             |  |
| C2                   | 6851V00080A | CABLE ASSEMBLY,1537740-1(AMP)          |                    |             |  |
| C3                   | 6850J00005C | CABLE,DVI LVDS UL20276 AWG30 600MM     |                    |             |  |



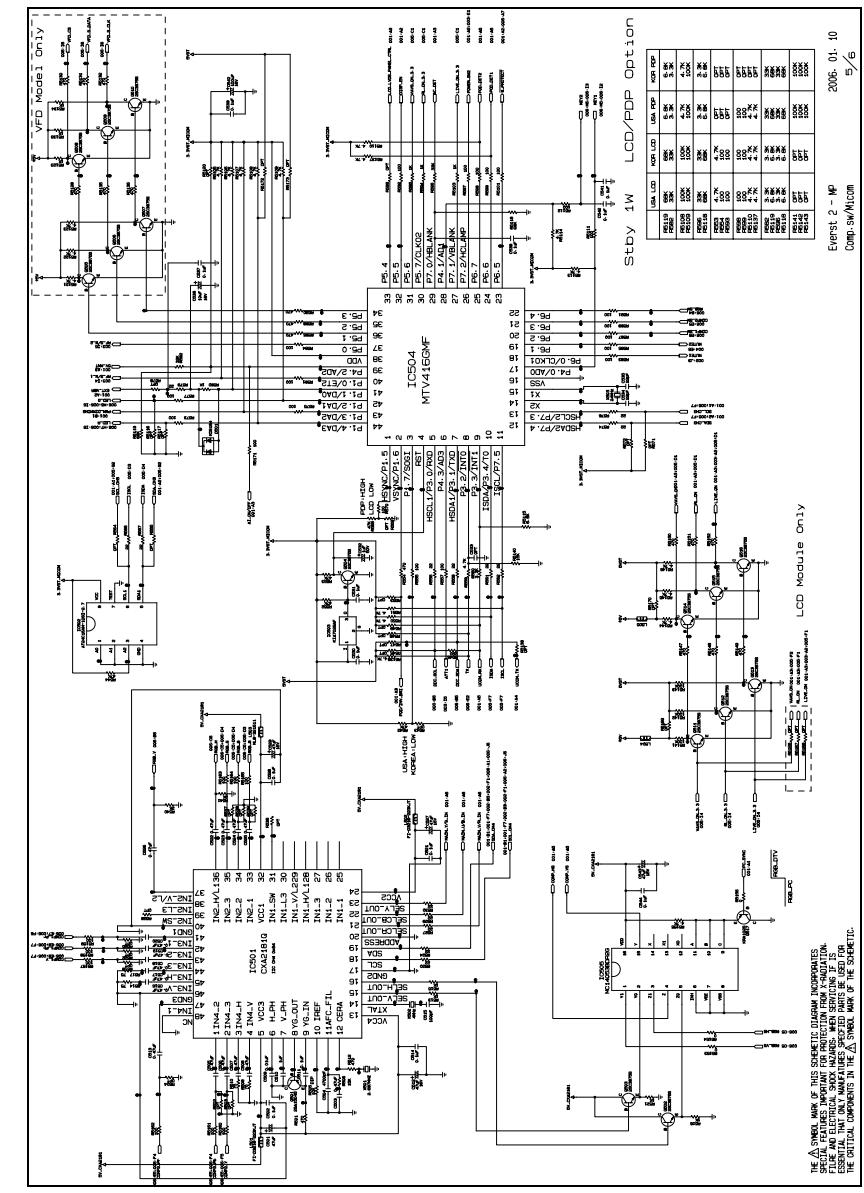
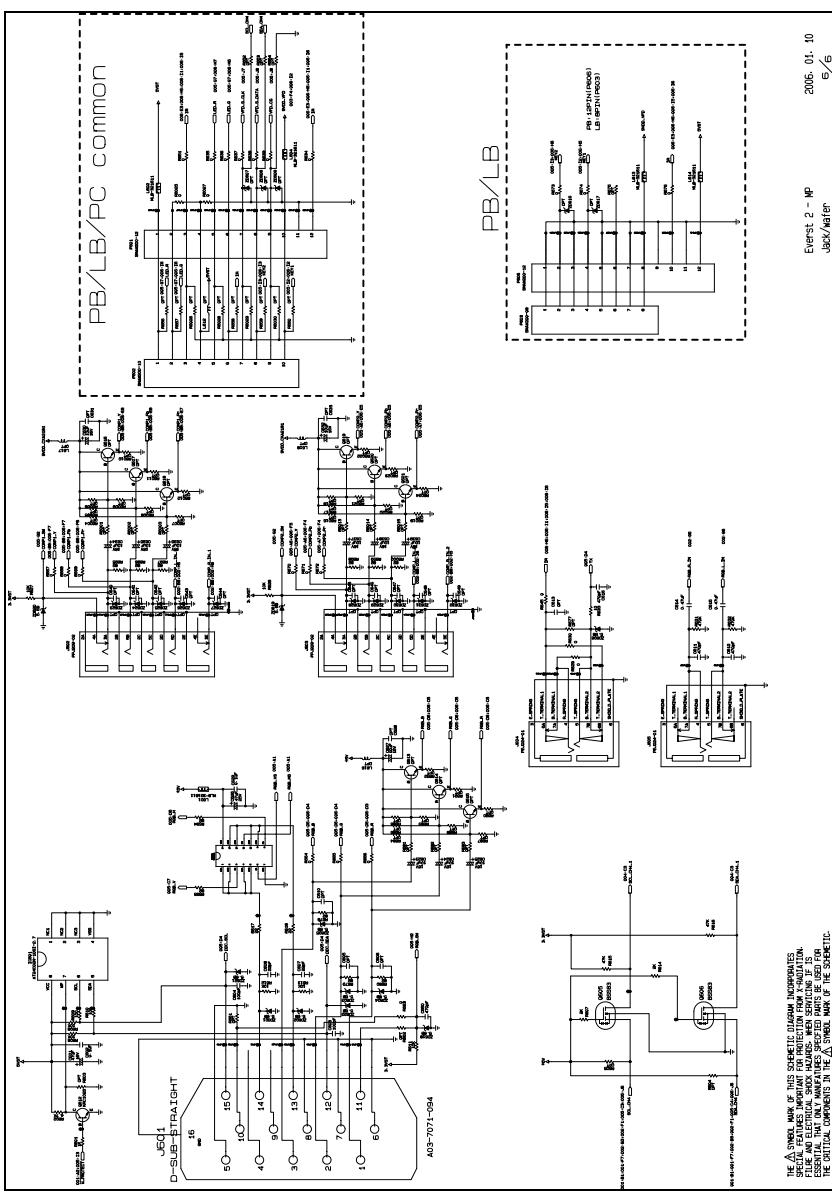
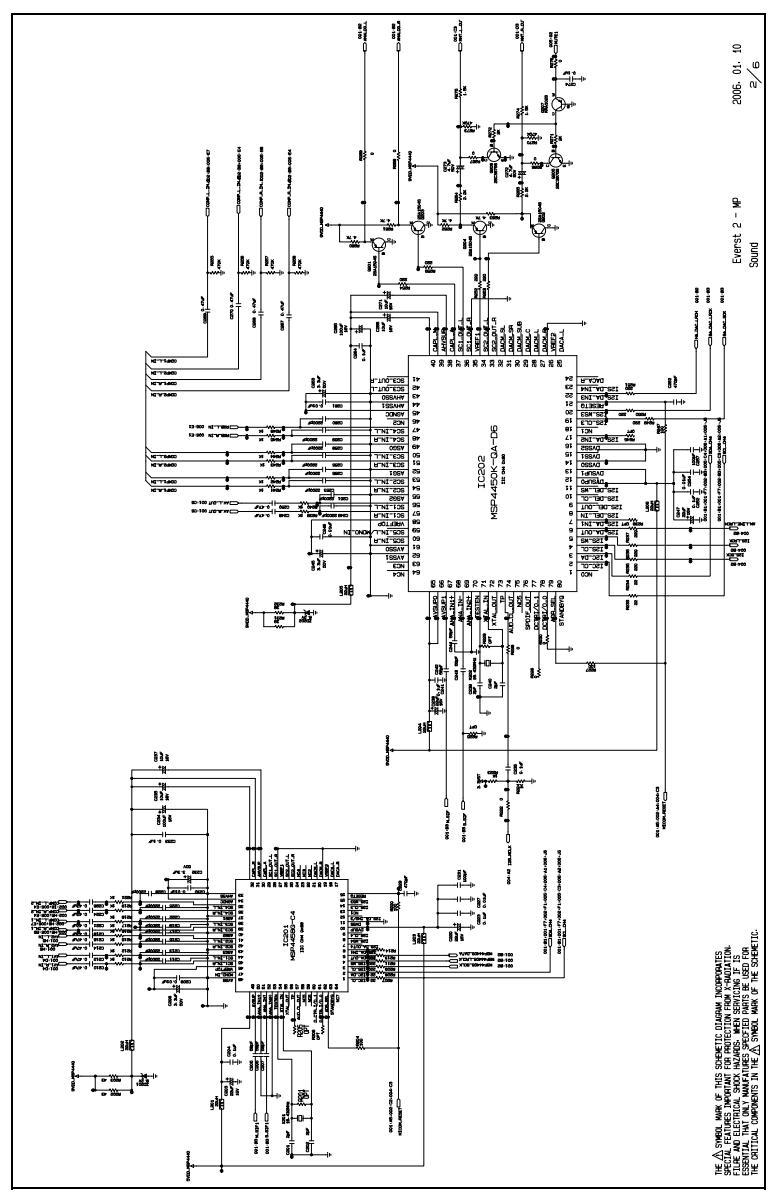
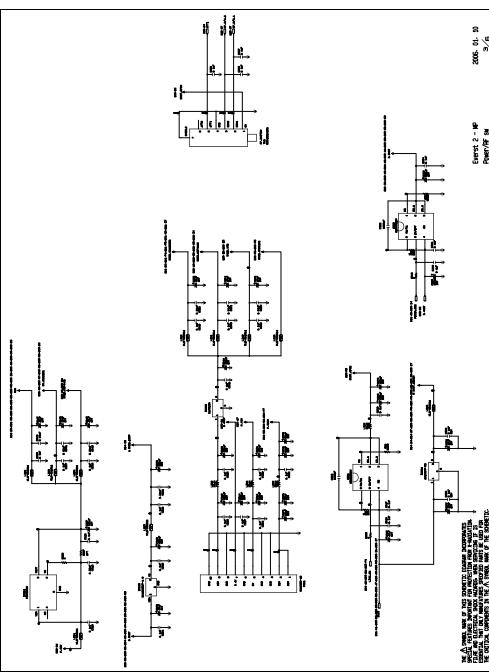
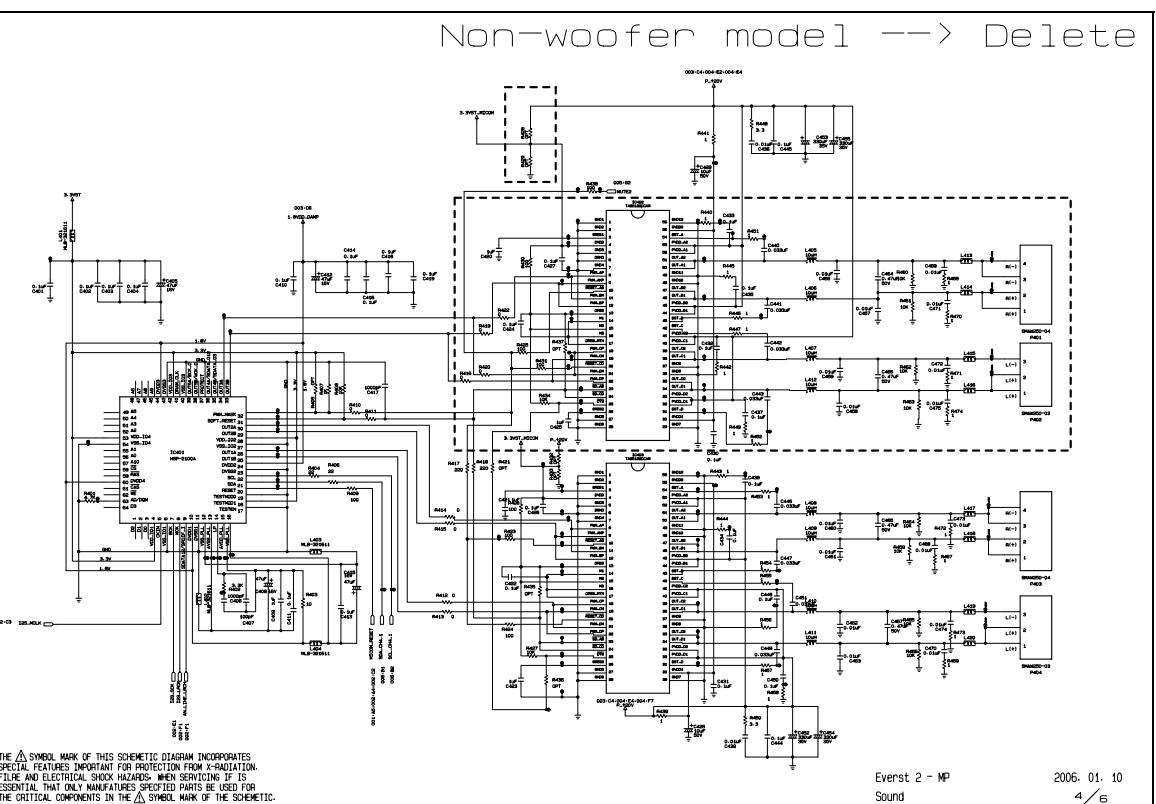
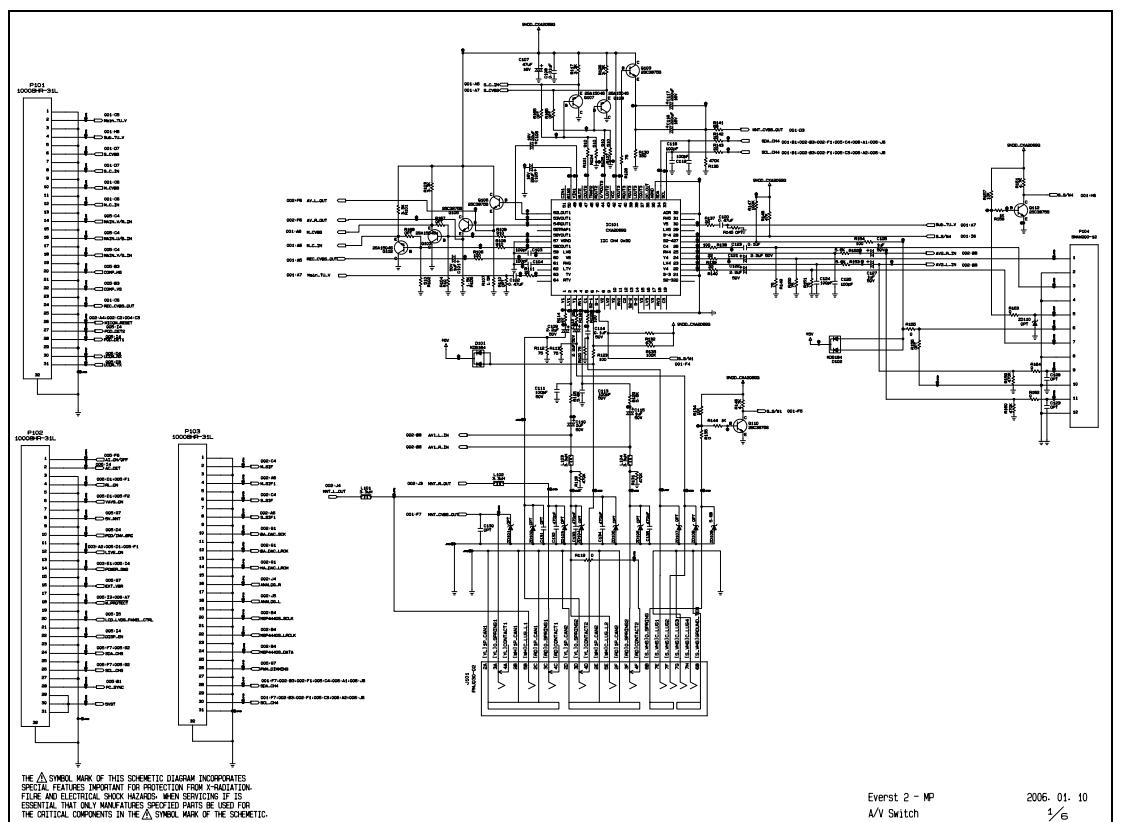
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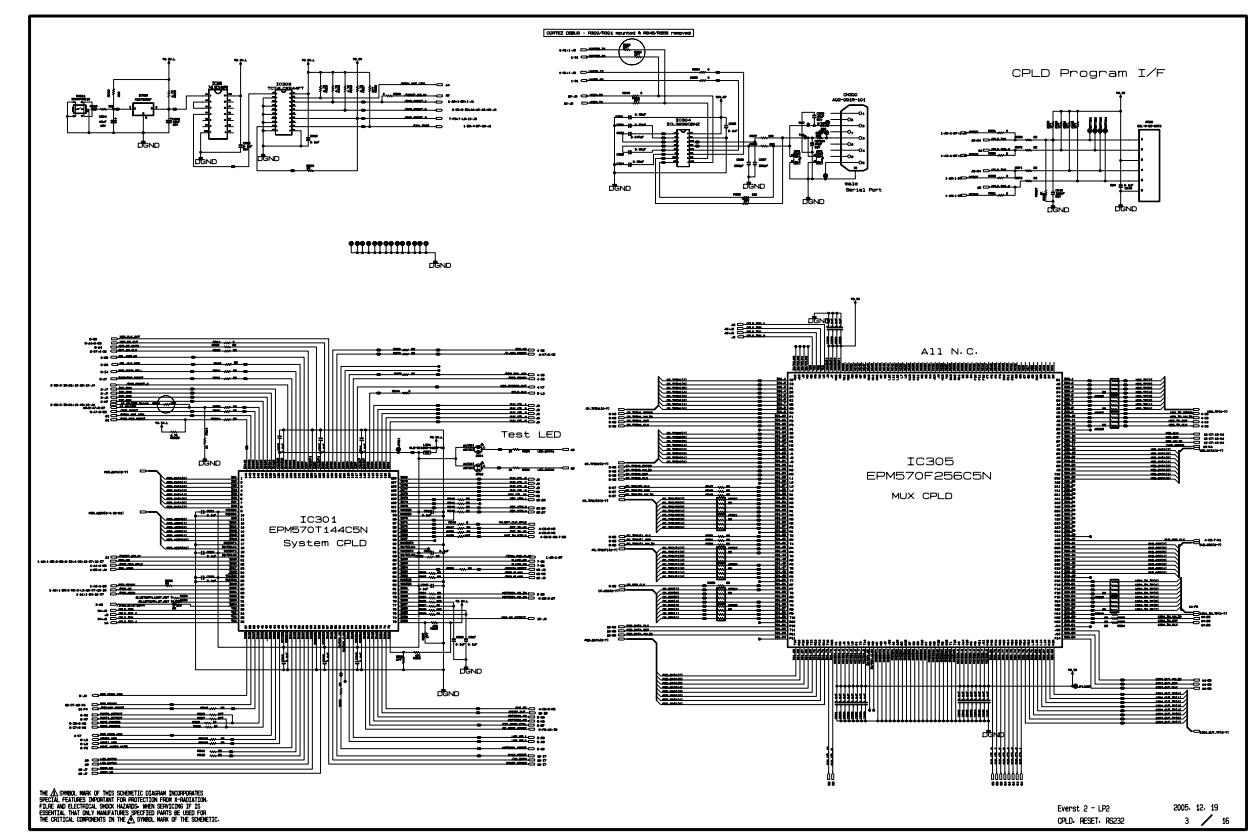
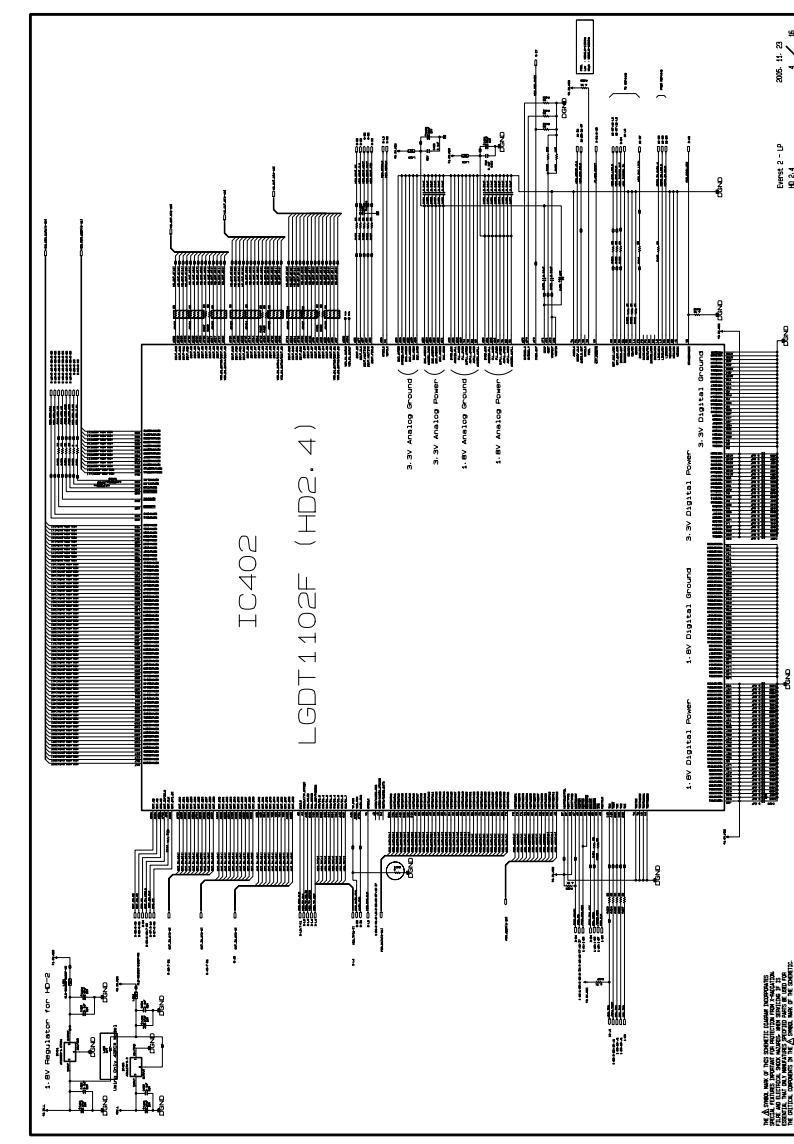
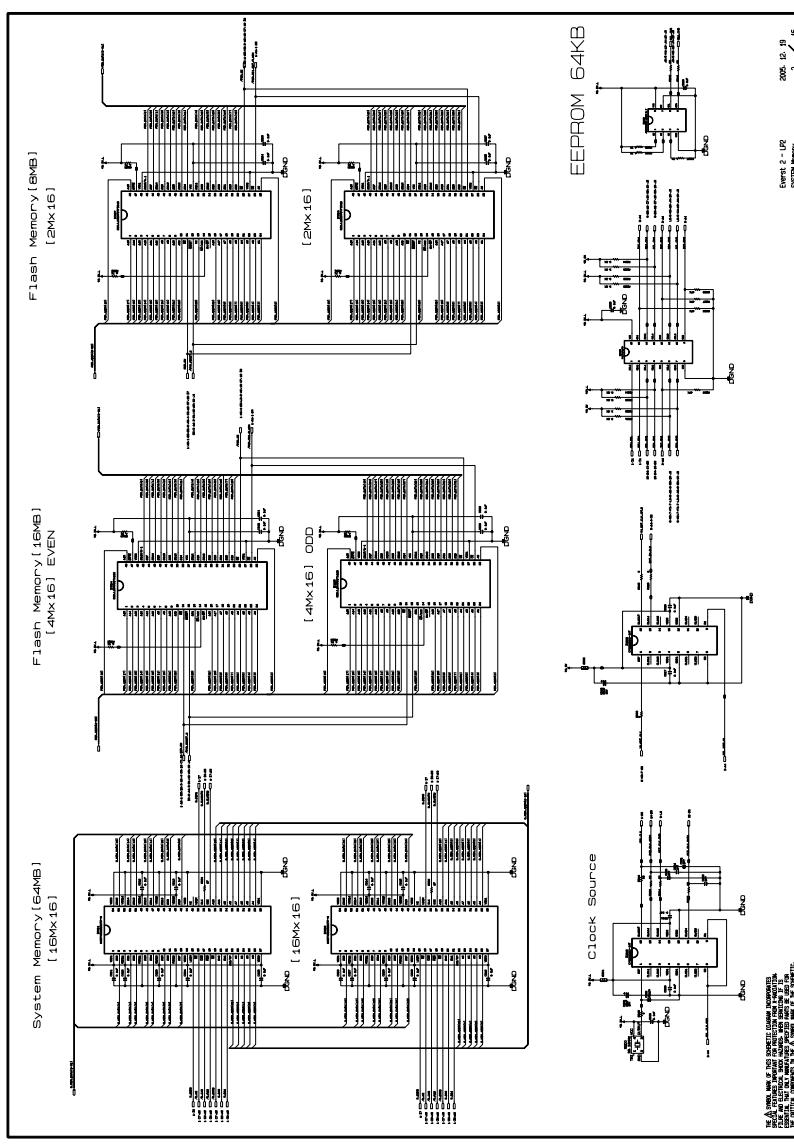
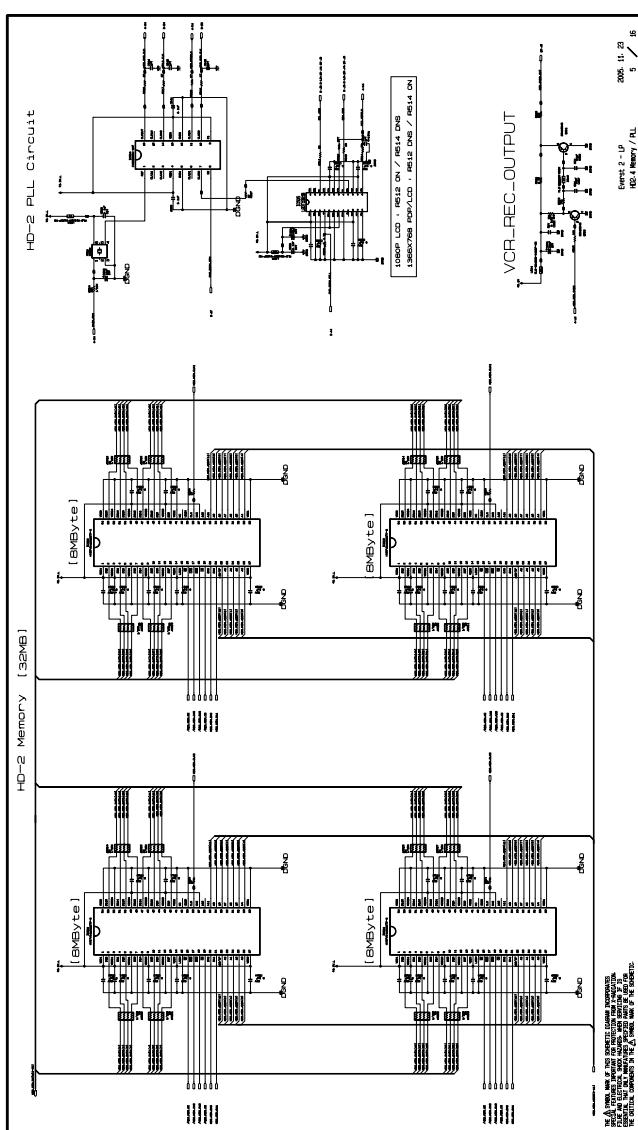
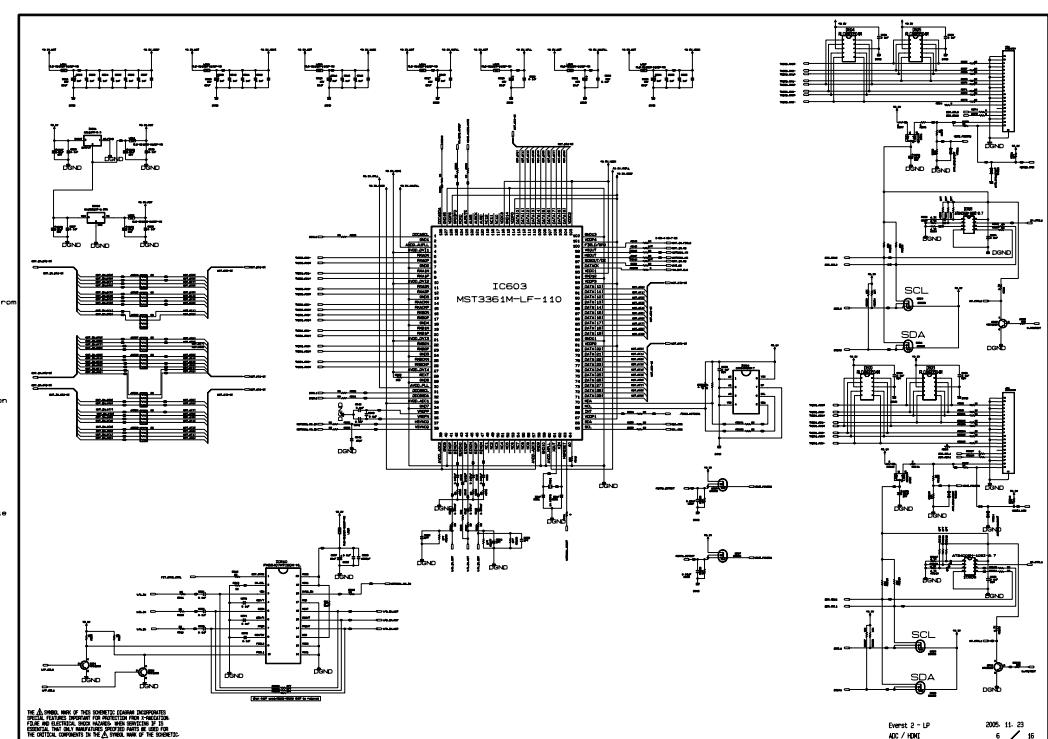
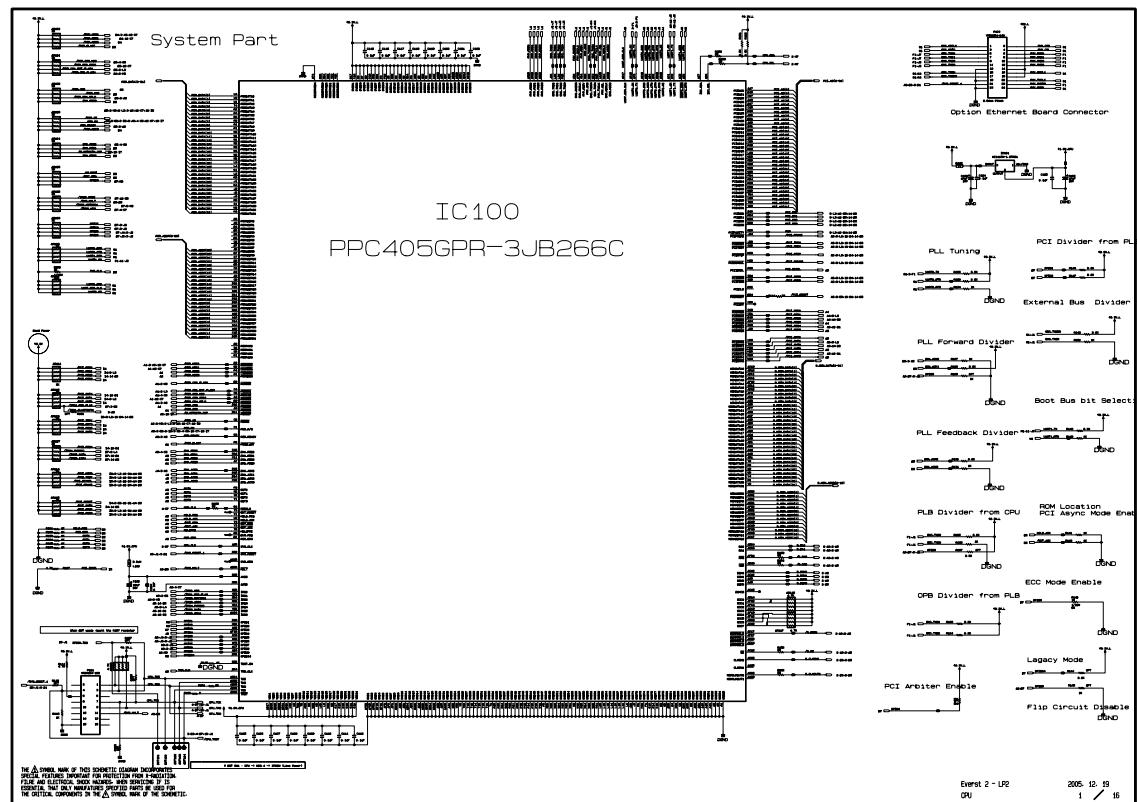
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Huntsville, AL 35824**



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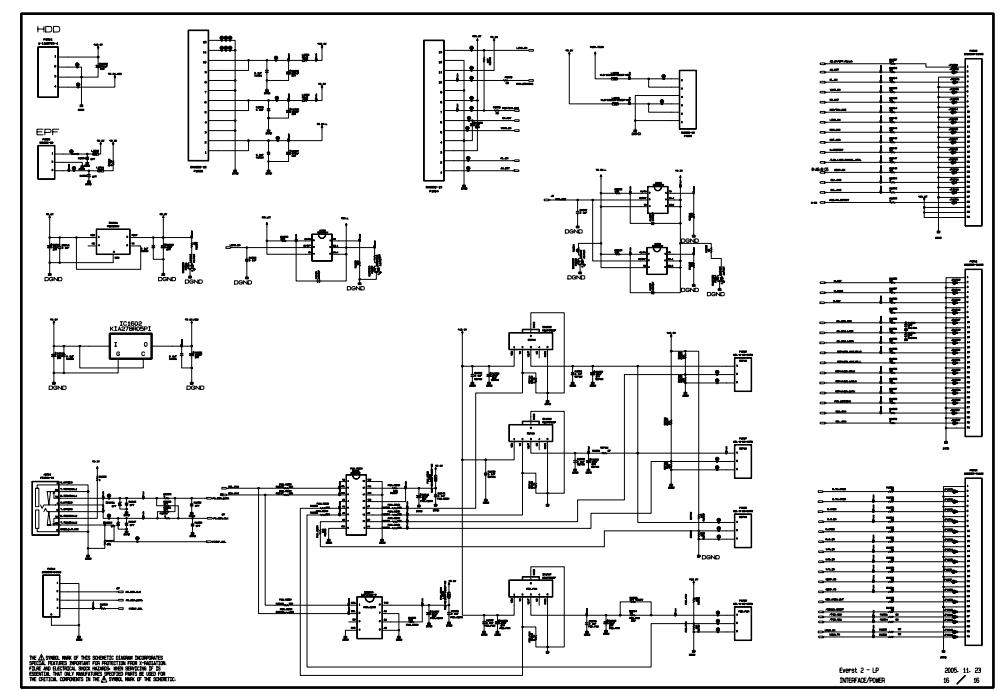
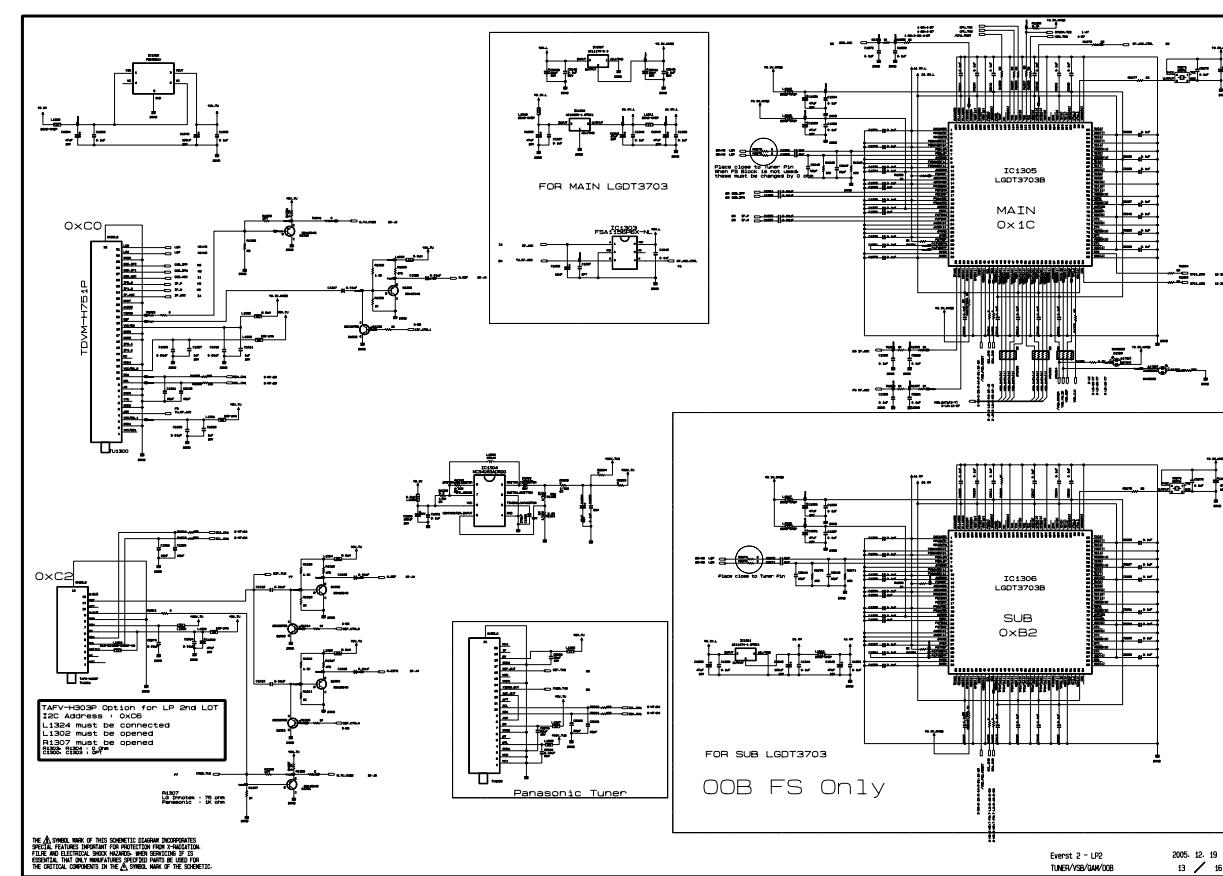
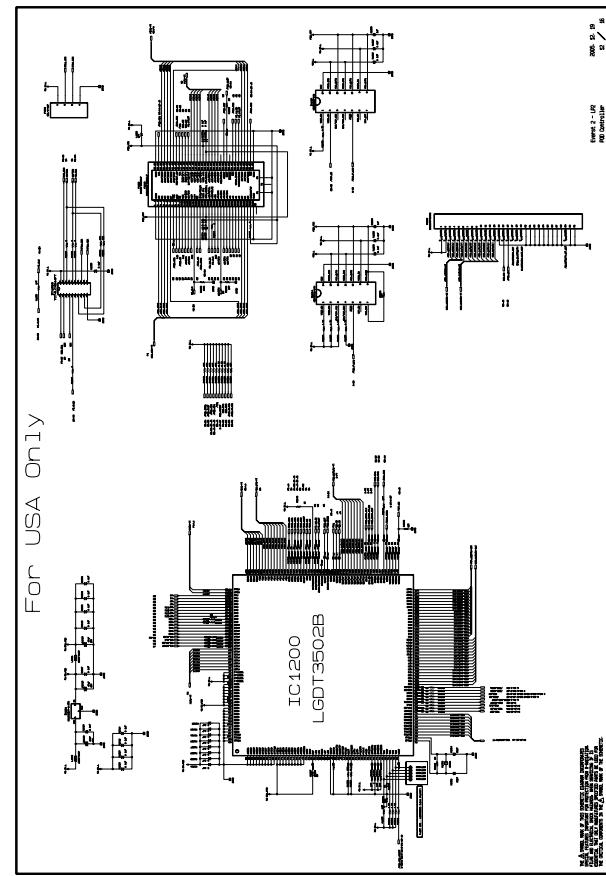
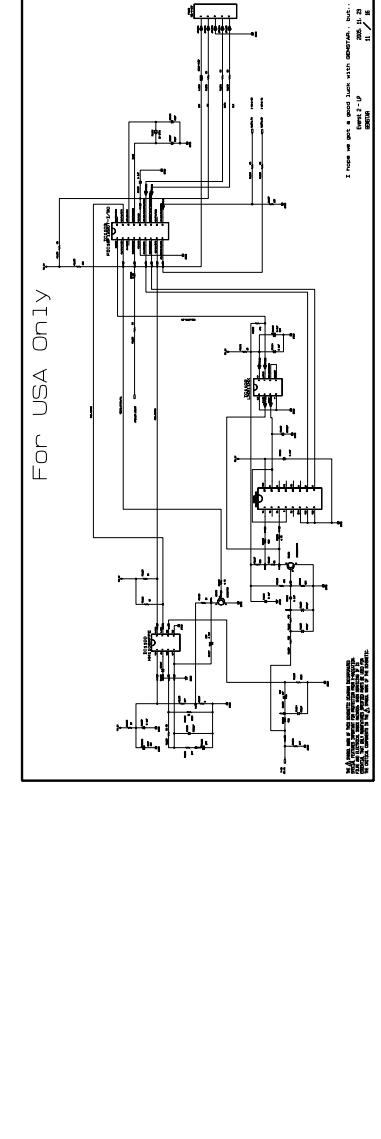
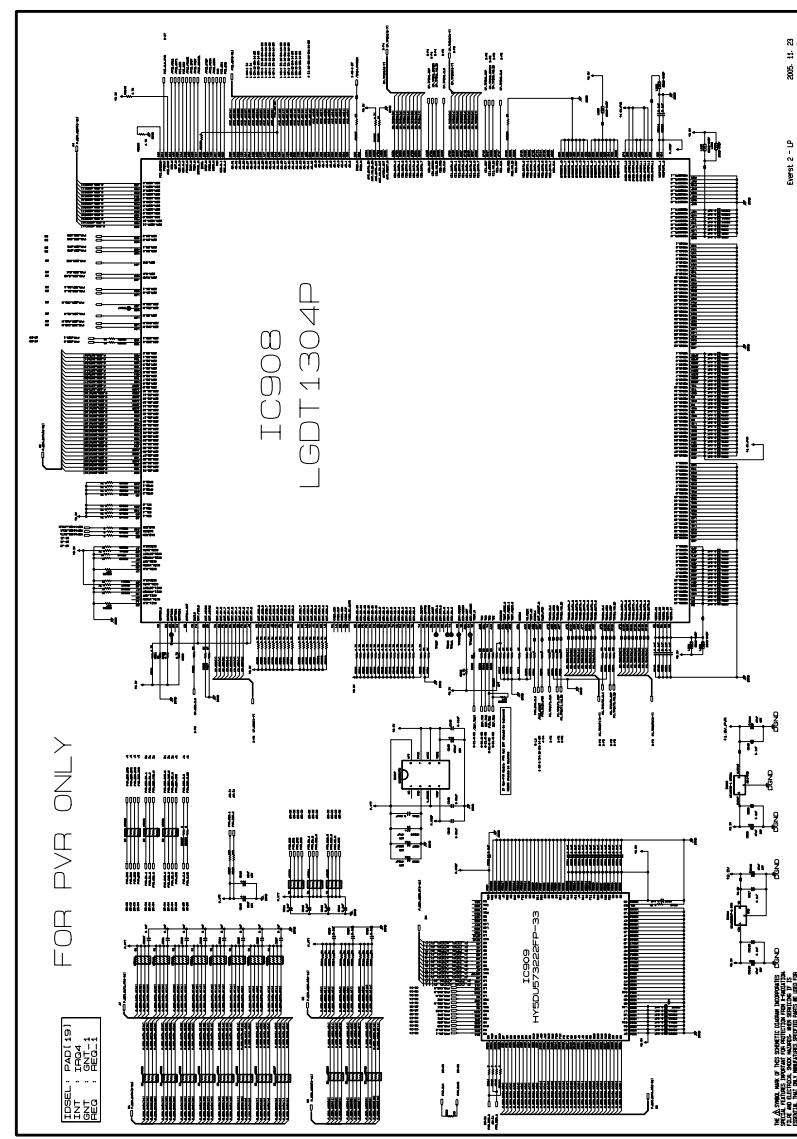
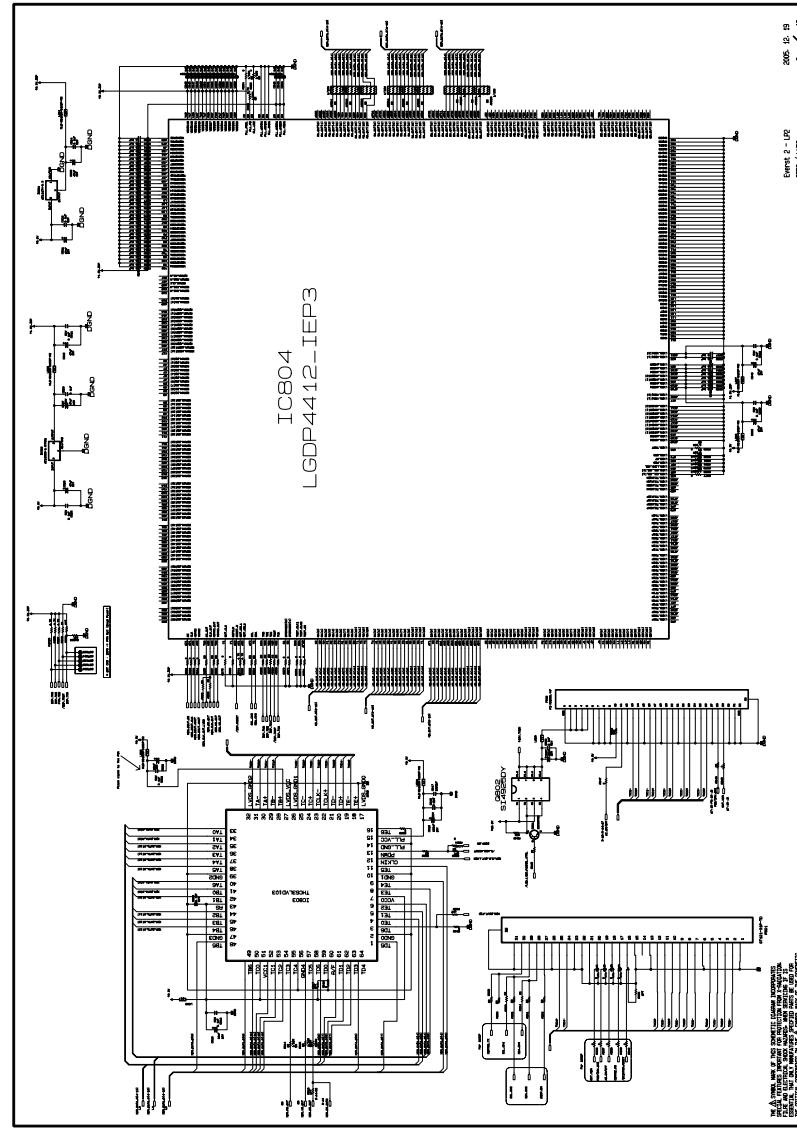
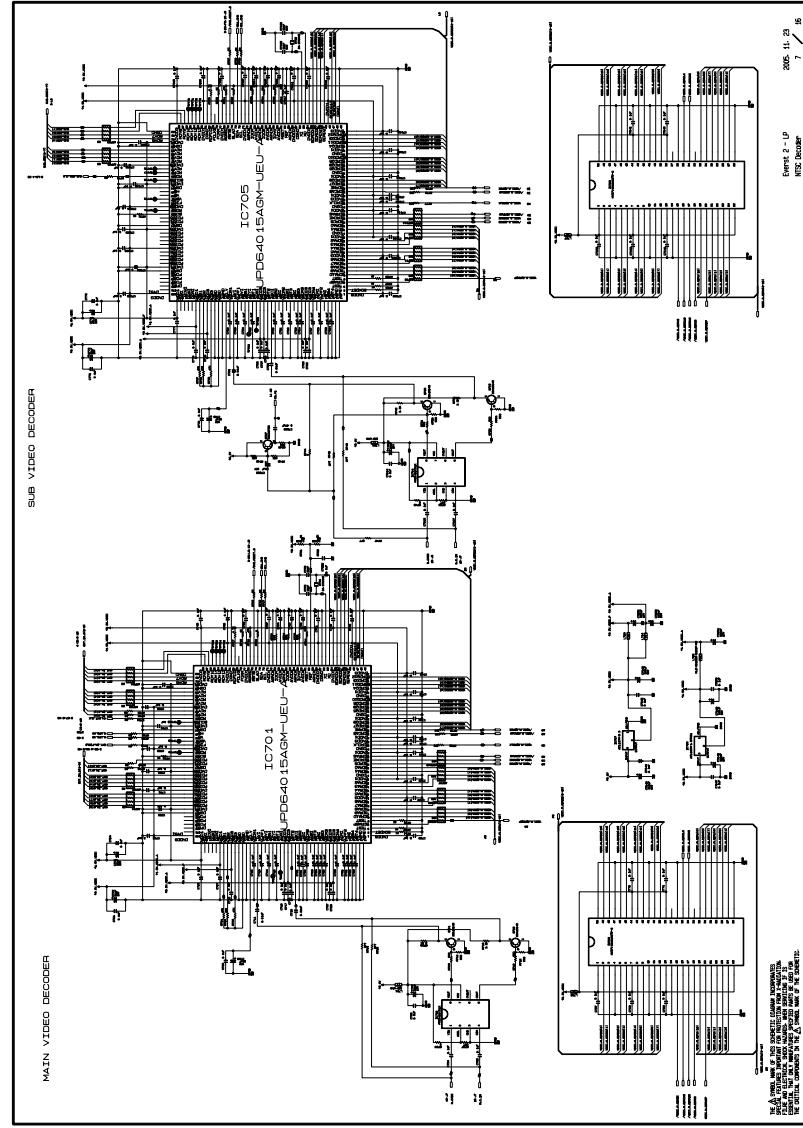


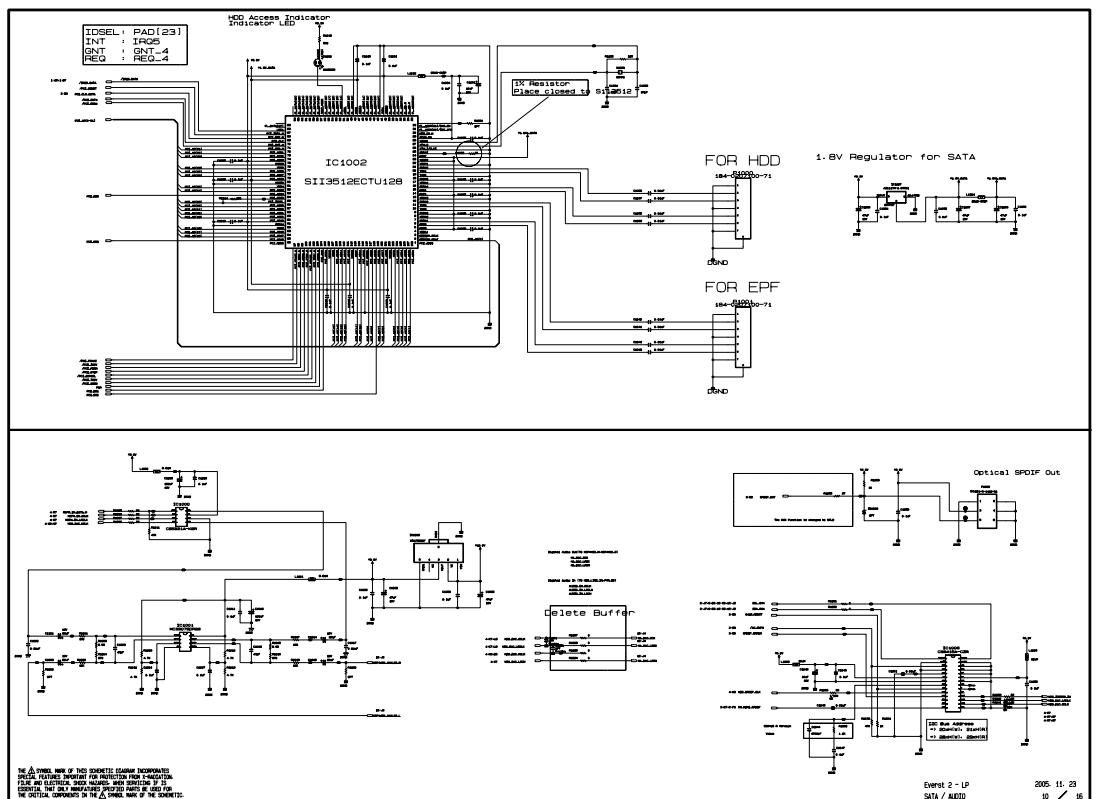
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IC402 Reset / RS232

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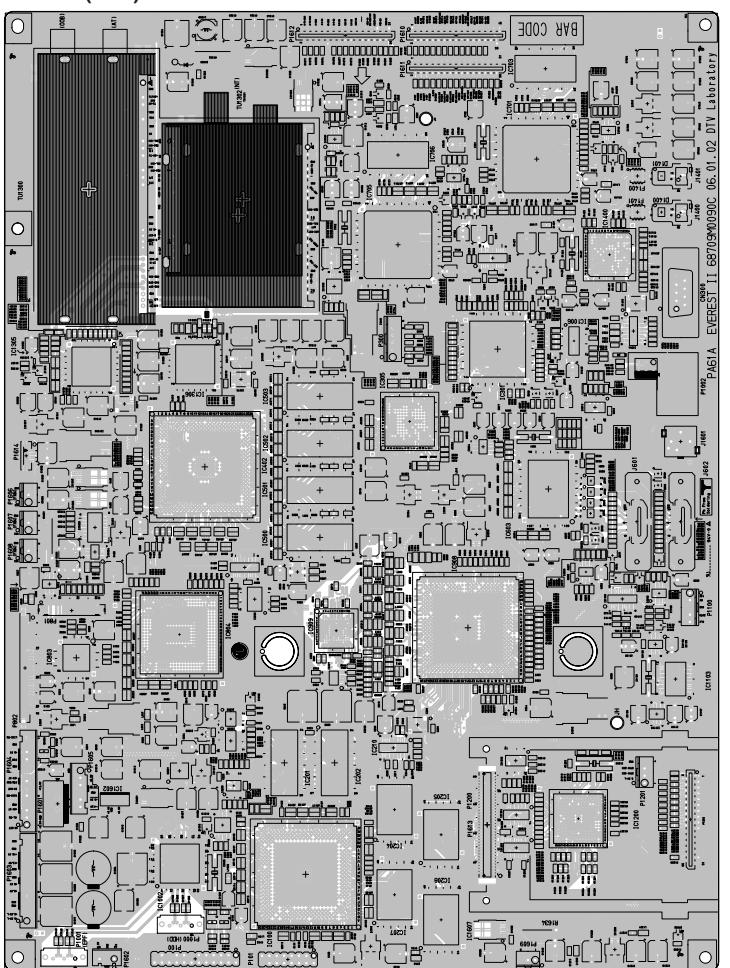
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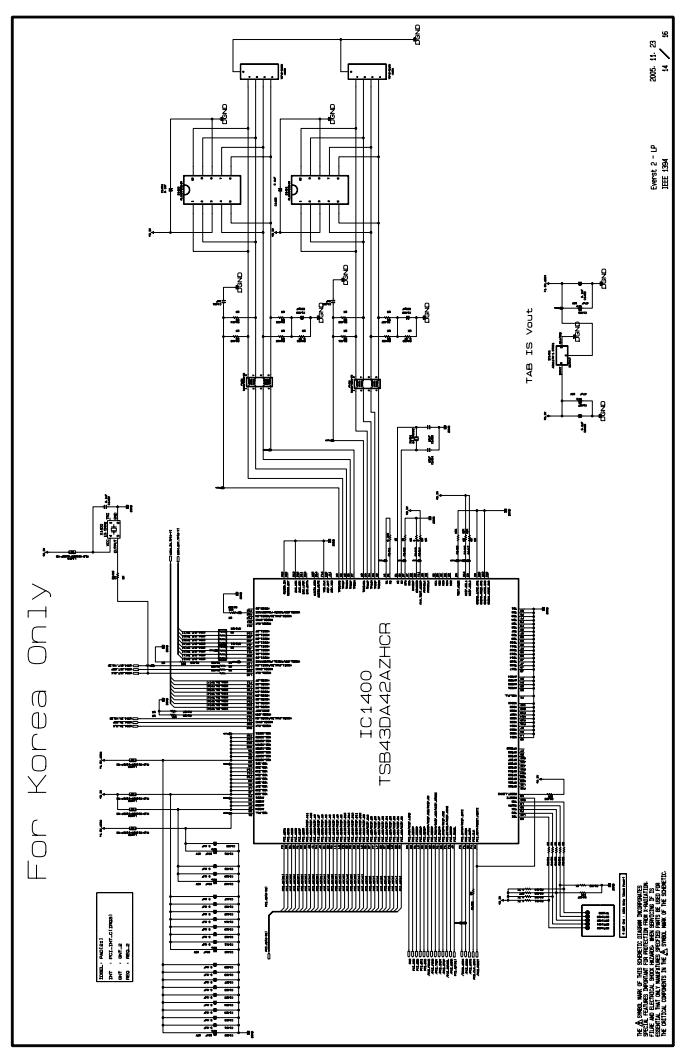
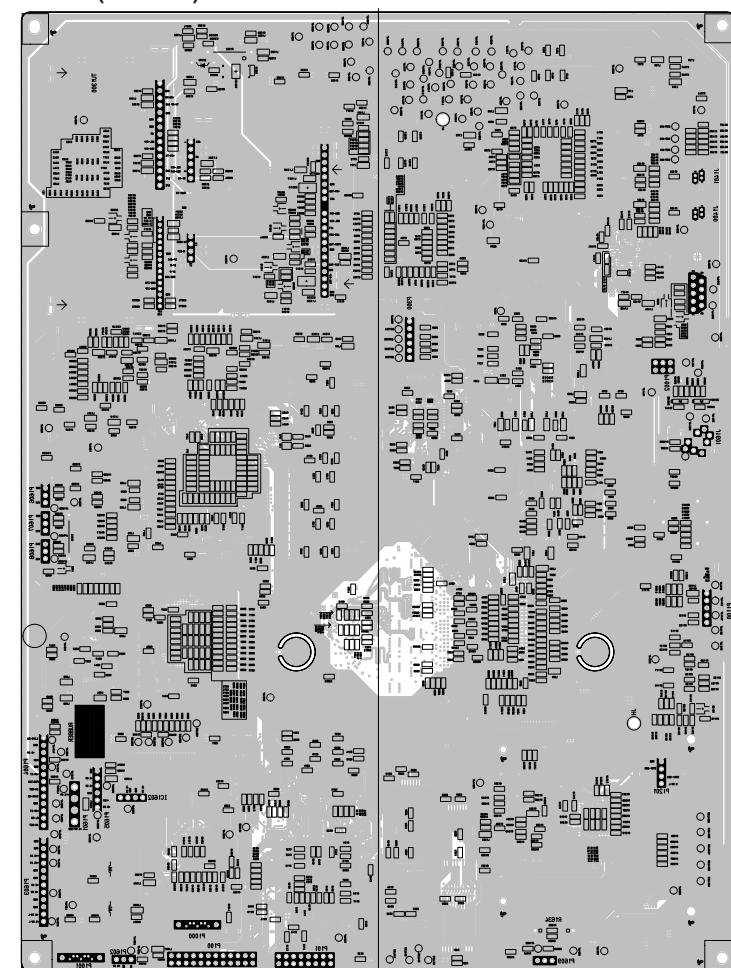




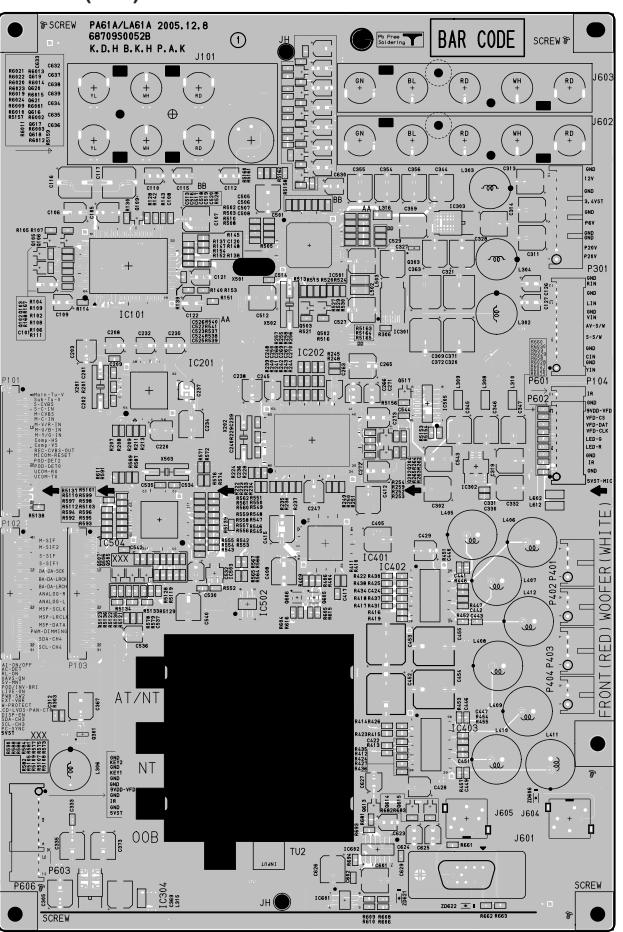
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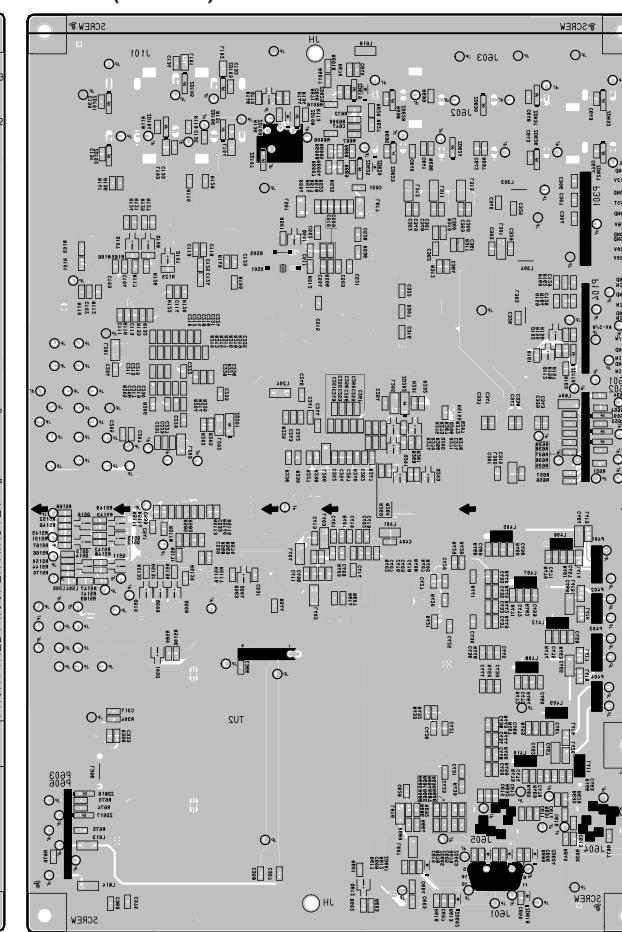
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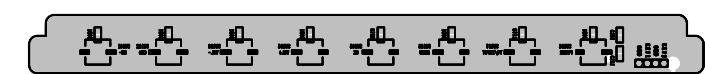
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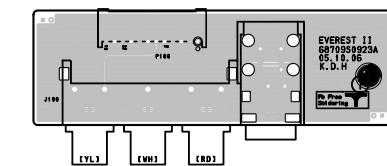
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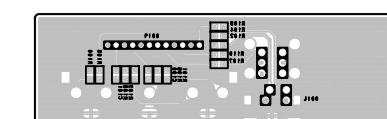
CONTROL



SIDE A/V(TOP)



SIDE A/V(BOTTOM)



PRE-AMP

